# RACADM Command Line Reference Guide for iDRAC7 1.30.30 and CMC 4.3

# Notes, Cautions, and Warnings

**NOTE:** A NOTE indicates important information that helps you make better use of your computer.

**CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.**

**WARNING: A WARNING indicates a potential for property damage, personal injury, or death.**

**© 2013 Dell Inc.**

Trademarks used in this text: Dell™, the Dell logo, Dell Boomi™, Dell Precision™ , OptiPlex™, Latitude™, PowerEdge™, PowerVault™, PowerConnect™, OpenManage™, EqualLogic™, Compellent™, KACE™, FlexAddress™, Force10™ and Vostro™ are trademarks of Dell Inc. Intel®, Pentium®, Xeon®, Core® and Celeron® are registered trademarks of Intel Corporation in the U.S. and other countries. AMD® is a registered trademark and AMD Opteron™, AMD Phenom™ and AMD Sempron™ are trademarks of Advanced Micro Devices, Inc. Microsoft®, Windows®, Windows Server®, Internet Explorer®, MS-DOS®, Windows Vista® and Active Directory® are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Red Hat® and Red Hat® Enterprise Linux® are registered trademarks of Red Hat, Inc. in the United States and/or other countries. Novell® and SUSE® are registered trademarks of Novell Inc. in the United States and other countries. Oracle® is a registered trademark of Oracle Corporation and/or its affiliates. Citrix®, Xen®, XenServer® and XenMotion® are either registered trademarks or trademarks of Citrix Systems, Inc. in the United States and/or other countries. VMware®, Virtual SMP®, vMotion®, vCenter® and vSphere® are registered trademarks or trademarks of VMware, Inc. in the United States or other countries. IBM® is a registered trademark of International Business Machines Corporation.

2012 - 12

Rev. A00

# Contents


Notes, Cautions, and Warnings....2

1 Introduction....33
- New in This Release....33
- Supported RACADM Interfaces....34
- RACADM Syntax Usage....34
  - Local RACADM....34
  - SSH or Telnet RACADM....34
  - Remote RACADM....35
  - RACADM Command Options....35
- Supported RACADM Subcommands....36
- Other Documents You May Need....39

2 RACADM Subcommand Details....41
- Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands....41
- "?"and "?<subcommand>" ....42
- help and help <subcommand>....43
- arp....43
- autocomplete....44
- cd....44
- cd....45
- chassisaction....45
- clearasrscreen....46
- closessn....47
- clrsel....47
- cmcchangeover....47
- config....48
- connect....49
- coredump....50
- coredumpdelete....50
- deploy....51
- eventfilters....52
- feature....55
- featurecard....55
- fwupdate....56
- get....60
- getarraycfg....61

getassettag....62
getchassisname....62
getconfig....62
getdcinfo....64
getflexaddr....66
getfanreqinfo....68
getioinfo....70
getkvminfo....71
getled....71
getmacaddress....72
getmodinfo....77
getniccfg....78
getpbinfo....80
getpminfo....81
getraclog....82
getractime....83
getredundancymode....84
getsel....84
getsensorinfo....84
getslotname....87
getssninfo....88
getsvctag....88
getsysinfo....89
gettracelog....91
getversion....91
hwinventory....94
ifconfig....97
inlettemphistory....97
jobqueue....98
krbkeytabupload....99
lclog....100
license....102
netstat....105
nicstatistics....106
ping....107
ping6....107
racdump....108
racreset....110
racresetcfg....111
raid....112
remoteimage....114
serveraction....116

set....117
setarraycfg....118
setassettag....119
setchassisname....120
setflexaddr....120
setled....121
setniccfg....122
setractime....122
setslotname....124
setsysinfo....124
sshpkauth....125
sslcertdownload....126
sslcertupload....127
sslcertview....128
sslcertdelete....129
sslcsrgen....130
sslkeyupload....130
sslresetcfg....131
systemconfig....131
testemail....132
testfeature....133
testtrap....135
testalert....136
traceroute....136
traceroute6....136
update....137
usercertupload....137
usercertview....138
vflashsd....138
vflashpartition....139
vmdisconnect....140

3 iDRAC and CMC Property Database Group and Object Descriptions....141
Displayable Characters....141
idRacInfo....143
idRacProductInfo (Read Only)....143
idRacDescriptionInfo (Read Only)....143
idRacVersionInfo (Read Only)....143
idRacBuildInfo (Read Only)....143
idRacName (Read Only)....143
iDRAC Type (Read Only)....144
cfgLanNetworking....144

cfgNicIPv4Enable (Read or Write)....145
cfgNicSelection (Read or Write)....145
cfgNicVLanEnable (Read or Write)....145
cfgNicVLanId (Read or Write)....146
cfgNicVLanPriority (Read/Write)....146
cfgDNSDomainNameFromDHCP (Read/Write)....147
cfgDNSDomainName (Read/Write)....147
cfgDNSRacName (Read/Write)....147
cfgDNSRegisterRac (Read/Write)....148
cfgDNSServersFromDHCP (Read/Write)....149
cfgDNSServer1 (Read/Write)....149
cfgDNSServer2 (Read/Write)....149
cfgNicEnable (Read/Write)....149
cfgNicIpAddress (Read/Write)....150
cfgNicNetmask (Read/Write)....150
cfgNicGateway (Read/Write)....150
cfgNicUseDhcp (Read/Write)....151
cfgNicMacAddress (Read Only)....151
cfgStaticLanNetworking....151
cfgNicStaticEnable (Read or Write)....151
cfgNicStaticIPv4Enable (Read or Write)....152
cfgNicStaticIpAddress (Read or Write)....152
cfgNicStaticUseDhcp (Read or Write)....152
cfgNicStaticNetmask (Read or Write)....152
cfgNicStaticGateway (Read or Write)....153
cfgDNSStaticServersFromDHCP (Read or Write)....153
cfgDNSStaticServer1 (Read or Write)....153
cfgDNSStaticServer2(Read/Write)....153
cfgDNSStaticDomainName(Read/Write)....153
cfgDNSStaticDomainNameFromDHCP (Read or Write)....154
cfgRemoteHosts....154
cfgRhostsFwUpdateTftpEnable (Read/Write)....154
cfgRhostsFwUpdateIpAddr (Read/Write)....154
cfgRhostsFwUpdatePath (Read/Write)....155
cfgRhostsSmtpServerIpAddr (Read/Write)....155
cfgRhostsNtpEnable....155
cfgRhostsNtpServer1....155
cfgRhostsNtpServer2....155
cfgRhostsNtpServer3....156
cfgRhostsNtpMaxDist....156
cfgRhostsSyslogEnable (Read/Write)....156
cfgRhostsSyslogPort (Read/Write)....156

cfgRhostsSyslogServer1 (Read/Write)....157
cfgRhostsSyslogServer2 (Read/Write)....157
cfgRhostsSyslogServer3 (Read/Write)....157
cfgRhostsSyslogPowerLoggingEnabled....157
cfgRhostsSyslogPowerLoggingInterval....158
cfgUserAdmin....158
cfgUserAdminIndex (Read Only)....158
cfgUserAdminIpmiLanPrivilege (Read/Write)....159
cfgUserAdminPrivilege (Read/Write)....159
cfgUserAdminUserName (Read/Write)....161
cfgUserAdminPassword (Write Only)....161
cfgUserAdminEnable (Read/Write)....161
cfgUserAdminSolEnable (Read/Write)....161
cfgUserAdminIpmiSerialPrivilege (Read/Write)....162
cfgEmailAlert....162
cfgEmailAlertIndex (Read Only)....162
cfgEmailAlertEnable (Read/Write)....162
cfgEmailAlertAddress (Read/Write)....163
cfgEmailAlertCustomMsg (Read/Write)....163
cfgEmailAlertEmailName....163
cfgSessionManagement....163
cfgSsnMgtRacadmTimeout (Read/Write)....164
cfgSsnMgtConsRedirMaxSessions (Read/Write)....164
cfgSsnMgtWebserverTimeout (Read/Write)....164
cfgSsnMgtSshIdleTimeout (Read/Write)....164
cfgSsnMgtTelnetIdleTimeout (Read/Write)....165
cfgSerial....165
cfgSerialBaudRate (Read/Write)....166
cfgSerialConsoleEnable (Read/Write)....166
cfgSerialConsoleQuitKey (Read/Write)....166
cfgSerialConsoleIdleTimeout (Read/Write)....167
cfgSerialConsoleNoAuth (Read/Write)....167
cfgSerialConsoleCommand (Read/Write)....167
cfgSerialConsoleColumns....167
cfgSerialHistorySize (Read/Write)....168
cfgSerialCom2RedirEnable (Read/Write)....168
cfgSerialSshEnable (Read/Write)....168
cfgSerialTelnetEnable (Read/Write) ....169
cfgOobSnmp....169
cfgOobSnmpAgentCommunity (Read/Write)....169
cfgOobSnmpAgentEnable (Read/Write)....169
cfgTraps....170

cfgTrapsIndex (Read Only)....170
cfgTrapsEnable....170
cfgTrapsAlertDestIpAddr....170
cfgTrapsCommunityName....170
cfgRacTuning....171
cfgRacTuneConRedirPort (Read/Write)....171
cfgRacTuneRemoteRacadmEnable (Read/Write)....171
cfgRacTuneCtrlEConfigDisable....171
cfgRacTuneHttpPort (Read/Write)....172
cfgRacTuneHttpsPort (Read/Write)....172
cfgRacTuneIpRangeEnable (Read/Write)....172
cfgRacTuneIpRangeAddr (Read/Write)....172
cfgRacTuneIpRangeMask (Read/Write)....173
cfgRacTuneIpBlkEnable (Read/Write)....173
cfgRacTuneIpBlkFailCount (Read/Write)....173
cfgRacTuneIpBlkFailWindow (Read/Write)....173
cfgRacTuneIpBlkPenaltyTime (Read/Write)....174
cfgRacTuneSshPort (Read/Write)....174
cfgRacTuneTelnetPort (Read/Write)....174
cfgRacTuneConRedirEnable (Read/Write)....174
cfgRacTuneConRedirEncryptEnable (Read/Write)....174
cfgRacTuneAsrEnable (Read/Write)....175
cfgRacTuneDaylightOffset (Read Only)....175
cfgRacTuneTimezoneOffset (Read Only)....175
cfgRacTuneLocalServerVideo (Read/Write)....176
cfgRacTuneLocalConfigDisable (Read/Write)....176
cfgRacTuneWebserverEnable (Read/Write)....177
cfgRacTuneVirtualConsoleAuthorizeMultipleSessions (Read/Write)....177
cfgRacTunePluginType (Read/Write)....177
ifcRacManagedNodeOs....178
ifcRacMnOsHostname (Read Only)....178
ifcRacMnOsOsName (Read Only)....178
cfgRacVirtual....178
cfgVirMediaAttached (Read/Write)....178
cfgVirtualBootOnce (Read/Write)....179
cfgVirMediaFloppyEmulation (Read/Write)....179
cfgSDWriteProtect (Read Only) ....179
cfgServerInfo....180
cfgServerInfoIndex (Read Only)....180
cfgServerSlotNumber (Read Only)....180
cfgServerServiceTag (Read Only)....180
cfgServerName (Read/Write)....180

cfgServerFW (Read Only)....181
cfgServerBIOS (Read Only)....181
cfgServerBmcMacAddress (Read Only)....181
cfgServerNic1MacAddress (Read Only)....181
cfgServerNic2MacAddress (Read Only)....181
cfgServerNic3MacAddress (Read Only)....182
cfgServerNic4MacAddress (Read Only)....182
cfgServerPriority (Read/Write)....182
cfgServerNicEnable (Read/Write)....182
cfgServerIPMIOverLanEnable (Read/Write)....182
cfgServerPowerBudgetAllocation (Read Only)....183
cfgServerDNSRegisterIMC (Read/Write)....183
cfgServerDNSIMCName (Read/Write)....183
cfgServerRootPassword (Write Only)....183
cfgServerFirstBootDevice (Read or Write)....183
cfgServerBootOnce (Read/Write)....184
cfgServerPowerConsumption (Read Only)....184
cfgActiveDirectory....185
cfgADRacDomain (Read/Write)....186
cfgADRacName (Read/Write)....186
cfgADRootDomain....186
cfgADEnable (Read/Write)....186
cfgADSCLEnable....186
cfgADSSOEnable (Read/Write)....187
cfgADDomainController....187
cfgADDomainController1 (Read/Write)....187
cfgADDomainController2 (Read/Write)....187
cfgADDomainController3 (Read/Write)....187
cfgADAuthTimeout (Read/Write)....188
cfgADType (Read/Write)....188
cfgADSpecifyServerEnable....188
cfgADGlobalCatalog....188
cfgADGlobalCatalog1 (Read/Write)....189
cfgADGlobalCatalog2 (Read/Write)....189
cfgADGlobalCatalog3 (Read/Write)....189
cfgADCertValidationEnable (Read/Write)....189
cfgADDcSRVLookupEnable (Read/Write)....190
cfgADDcSRVLookupbyUserdomain (Read/Write)....190
cfgADDcSRVLookupDomainName (Read/Write)....190
cfgADGcSRVLookupEnable (Read/Write)....191
cfgADGcRootDomain (Read/Write)....191
cfgLDAP....191

cfgLdapEnable (Read/Write)....191
cfgLdapServer (Read/Write)....192
cfgLdapPort (Read/Write)....192
cfgLdapBasedn (Read/Write)....192
cfgLdapUserAttribute (Read/Write)....192
cfgLdapGroupAttribute (Read/Write)....193
cfgLdapGroupAttributeIsDN (Read/Write)....193
cfgLdapBinddn (Read/Write)....193
cfgLdapBindpassword (Write Only)....193
cfgLdapSearchFilter (Read/Write)....194
cfgLDAPCertValidationEnable (Read/Write)....194
cfgLDAPNetworkTimeout....194
cfgLDAPSearchTimeout....194
cfgLDAPSRVLookupEnable....194
cfgLDAPSRVLookupDomainName....195
cfgLDAPSRVLookupServiceName (Read/Write)....195
cfgLdapRoleGroup....195
cfgLdapRoleGroupIndex (Read Only)....195
cfgLdapRoleGroupDN (Read/Write)....196
cfgLdapRoleGroupPrivilege (Read/Write)....196
cfgLocation....196
cfgLocationDatacenter (Read/Write)....196
cfgLocationAisle (Read/Write)....196
cfgLocationRack (Read/Write)....197
cfgLocationRackslot (Read/Write)....197
cfgLocationDevicesize (Read Only)....197
cfgStandardSchema....197
cfgSSADRoleGroupIndex (Read Only)....197
cfgSSADRoleGroupName (Read/Write)....197
cfgSSADRoleGroupDomain (Read/Write)....198
cfgSSADRoleGroupPrivilege (Read/Write)....198
cfgChassisPower....198
cfgChassisExternalPowerManagementMode....199
cfgChassisInPower (Read Only)....199
cfgChassisPeakPower (Read Only)....199
cfgChassisPeakPowerTimestamp (Read Only)....199
cfgChassisMinPower (Read Only)....200
cfgChassisMinPowerTimestamp (Read Only)....200
cfgChassisPowerStatus (Read Only)....200
cfgChassisRedundantState (Read Only)....200
cfgChassisPowerCap (Read/Write)....200
cfgChassisPowerCapF (Read/Write)....201

cfgChassisPowerCapBTU (Read/Write)....201
cfgChassisPowerCapFBTU (Read/Write)....201
cfgChassisPowerCapPercent (Read/Write)....201
cfgChassisPowerCapFPercent (Read/Write)....202
cfgChassisRedundancyPolicy (Read/Write)....202
cfgChassisDynamicPSUEngagementEnable (Read/Write)....202
cfgChassisAllow110VACOperation (Read/Write)....202
cfgChassisMaxPowerConservationMode (Read/Write)....203
cfgChassisPerformanceOverRedundancy (Read/Write)....203
cfgChassisInMaxPowerCapacity (Read Only)....203
cfgChassisInRedundancyReserve (Read Only)....203
cfgChassisInPowerServerAllocation (Read Only)....204
cfgChassisInfrastructureInPowerAllocation (Read Only)....204
cfgChassisTotalInPowerAvailable (Read Only)....204
cfgChassisStandbyInPowerCapacity (Read Only)....204
cfgChassisPowerClear (Write Only)....204
cfgChassisPowerClearTimestamp (Read Only)....204
cfgChassisPowerButtonEnable (Read/Write)....205
cfgSystemEnergyConsumptionClear (Write Only)....205
cfgIpmiSol....206
cfgIpmiSolEnable (Read/Write)....206
cfgIpmiSolBaudRate (Read/Write)....206
cfgIpmiSolMinPrivilege (Read/Write)....206
cfgIpmiSolAccumulateInterval (Read/Write)....206
cfgIpmiSolSendThreshold (Read/Write)....207
cfgIpmiLan....207
cfgIpmiLanEnable (Read/Write)....207
cfgIpmiLanPrivLimit (Read/Write)....207
cfgIpmiLanAlertEnable (Read/Write)....207
cfgIpmiLanEncryptionKey (Read/Write)....208
cfgIpmiLanPetCommunityName (Read/Write)....208
cfgIpmiPetIpv6....208
cfgIpmiPetIPv6Index (Read Only)....208
cfgIpmiPetIPv6AlertDestIpAddr....208
cfgIpmiPetIPv6AlertEnable (Read/Write)....208
cfgIpmiPef....209
cfgIpmiPefName (Read Only)....209
cfgIpmiPefIndex (Read/Write)....209
cfgIpmiPefAction (Read/Write)....209
cfgIpmiPefEnable (Read/Write)....209
cfgIpmiPet....210
cfgIpmiPetIndex (Read Only)....210

cfgIpmiPetAlertDestIpAddr (Read/Write)....210
cfgIpmiPetAlertEnable (Read/Write)....210
cfgUserDomain....210
cfgUserDomainIndex (Read Only)....210
cfguserdomainname....211
cfgServerPower....211
cfgServerPowerStatus (Read Only)....211
cfgServerPowerAllocation (Read Only)....211
cfgServerActualPowerConsumption (Read Only)....211
cfgServerPowerCapEnable (Read/Write)....212
cfgServerMinPowerCapacity (Read Only)....212
cfgServerMaxPowerCapacity (Read Only)....212
cfgServerPeakPowerConsumption (Read Only)....212
cfgServerPeakPowerConsumptionTimestamp (Read Only)....212
cfgServerPowerConsumptionClear (Write Only)....213
cfgServerPowerCapWatts (Read/Write)....213
cfgServerPowerCapBtuhr (Read/Write)....213
cfgServerPowerCapPercent (Read/Write)....213
cfgServerPowerLastHourAvg (Read Only)....214
cfgServerPowerLastDayAvg (Read Only)....214
cfgServerPowerLastWeekAvg (Read Only)....214
cfgServerPowerLastHourMinPower (Read Only)....214
cfgServerPowerLastHourMinTime (Read Only)....214
cfgServerPowerLastHourMaxPower (Read Only)....215
cfgServerPowerLastHourMaxTime (Read Only)....215
cfgServerPowerLastDayMinPower (Read Only)....215
cfgServerPowerLastDayMinTime (Read Only)....215
cfgServerPowerLastDayMaxPower (Read Only)....216
cfgServerPowerLastDayMaxTime (Read Only)....216
cfgServerPowerLastWeekMinPower (Read Only)....216
cfgServerPowerLastWeekMinTime (Read Only)....217
cfgServerPowerLastWeekMaxPower (Read Only)....217
cfgServerPowerLastWeekMaxTime (Read Only)....217
cfgServerPowerInstHeadroom (Read Only)....218
cfgServerPowerPeakHeadroom (Read Only)....218
cfgServerActualAmperageConsumption (Read Only)....218
cfgServerPeakAmperage (Read Only)....218
cfgServerPeakAmperageTimeStamp (Read Only)....218
cfgServerCumulativePowerConsumption (Read Only)....219
cfgServerCumulativePowerConsumptionTimeStamp (Read Only)....219
cfgServerCumulativePowerClear (Write Only)....219
cfgServerPowerPCIeAllocation (Read/Write)....220

cfgKVMInfo....220
cfgKVMAccessToCMCEnable....220
cfgKVMFrontPanelEnable....220
cfgAlerting....220
cfgAlertingEnable....221
cfgAlertingFilterMask....221
cfgAlertingSourceEmailName....221
cfgLcdLocale....221
cfgServerPowerSupply....222
cfgServerPowerSupplyIndex....222
cfgServerPowerSupplyMaxInputPower (Read Only)....222
cfgServerPowerSupplyMaxOutputPower (Read Only)....222
cfgServerPowerSupplyOnlineStatus (Read Only)....222
cfgServerPowerSupplyFwVer (Read Only)....223
cfgServerPowerSupplyCurrentDraw (Read Only)....223
cfgServerPowerSupplyType....223
cfgIPv6LanNetworking....223
cfgIPv6Enable (Read/Write)....223
cfgIPv6Address....223
cfgIPv6Address1 (Read/Write)....224
cfgIPv6Gateway (Read/Write)....224
cfgIPv6PrefixLength (Read/Write)....224
cfgIPv6AutoConfig (Read/Write)....224
cfgIPv6LinkLocalAddress (Read Only)....225
cfgIPv6Address2 (Read Only)....225
cfgIPv6Address3 (Read Only)....225
cfgIPv6Address4 (Read Only)....225
cfgIPv6Address5 (Read Only)....225
cfgIPv6Address6 (Read Only)....226
cfgIPv6Address7 (Read Only)....226
cfgIPv6Address8 (Read Only)....226
cfgIPv6Address9 (Read Only)....226
cfgIPv6Address10 (Read Only)....226
cfgIPv6Address11 (Read Only)....226
cfgIPv6Address12 (Read Only)....227
cfgIPv6Address13 (Read Only)....227
cfgIPv6Address14 (Read Only)....227
cfgIPv6Address15 (Read Only)....227
cfgIPv6DNSServersFromDHCP6 (Read/Write)....227
cfgIPv6DNSServer1 (Read/Write)....228
cfgIPv6DNSServer2 (Read/Write)....228
cfgIpv6StaticLanNetworking....228

cfgIPv6StaticEnable (Read or Write)....229
cfgIPv6StaticAddress1 (Read or Write)....229
cfgIPv6StaticGateway (Read or Write)....229
cfgIPv6StaticPrefixLength (Read or Write)....229
cfgIPv6StaticAutoConfig (Read/Write)....229
cfgIPv6StaticDNSServersFromDHCP6 (Read or Write)....230
cfgIPv6StaticDNSServer1 (Read or Write)....230
cfgIPv6StaticDNSServer2 (Read or Write)....230
cfgCurrentLanNetworking (Read Only)....230
cfgNicCurrentIpAddress....230
cfgNicCurrentNetmask....230
cfgNicCurrentGateway....231
cfgNicCurrentDhcpWasUsed....231
cfgNicCurrentVlanEnable (Read Only)....231
cfgNicCurrentVlanID (Read Only)....231
cfgNicCurrentVlanPriority (Read Only)....231
cfgDNSCurrentServer1....231
cfgDNSCurrentServer2....232
cfgDNSCurrentDomainName....232
cfgNicCurrentIPv4Enabled....232
cfgCurrentIPv6LanNetworking (Read Only)....232
cfgCurrentIPv6Enabled....233
cfgCurrentIPv6AutoConfigWasUsed....233
cfgCurrentLinkLocalAddress....233
cfgCurrentIPv6Address1....233
cfgCurrentIPv6Gateway ....233
cfgCurrentIPv6DNSServersFromDHCP6 ....234
cfgCurrentIPv6DNSServer1....234
cfgCurrentIPv6DNSServer2....234
cfgIPv6URL....234
cfgIPv6URLstring (Read Only)....234
cfgIpmiSerial....234
cfgIpmiSerialBaudRate (Read/Write)....235
cfgIpmiSerialConnectionMode (Read/Write)....235
cfgIpmiSerialChanPrivLimit (Read/Write)....235
cfgIpmiSerialFlowControl (Read/Write)....235
cfgIpmiSerialHandshakeControl (Read/Write)....236
cfgIpmiSerialLineEdit (Read/Write)....236
cfgIpmiSerialEchoControl (Read/Write)....236
cfgIpmiSerialDeleteControl (Read/Write)....236
cfgIpmiSerialNewLineSequence (Read/Write)....236
cfgIpmiSerialInputNewLineSequence (Read/Write)....237

cfgSmartCard....237
cfgSmartCardLogonEnable (Read/Write)....237
cfgSmartCardCRLEnable (Read/Write)....237
cfgNetTuning....238
cfgNetTuningNicSpeed....238
cfgNetTuningNicAutoneg (Read/Write)....238
cfgNetTuningNic100MB (Read/Write)....238
cfgNetTuningNicFullDuplex (Read/Write)....239
cfgNetTuningNicMtu (Read/Write)....239
cfgSensorRedundancy....239
cfgSensorRedundancyIndex (Read Only)....239
cfgSensorRedundancyPolicy (Read/Write)....239
cfgSensorRedundancyCapabilities (Read Only)....240
cfgSensorRedundancyStatus (Read Only)....240
cfgVFlashSD....240
cfgVFlashSDEnable (Read/Write)....241
cfgVFlashSDSize (Read Only)....241
cfgVFlashSDLicensed (Read Only)....241
cfgVFlashSDAvailableSize (Read Only)....241
cfgVFlashSDHealth (Read Only)....241
cfgVFlashSDWriteProtect (Read Only)....242
cfgVFlashPartition....242
cfgVFlashPartitionIndex (Read Only)....242
cfgVFlashPartitionSize (Read Only)....242
cfgVFlashPartitionEmulationType (Read/Write)....242
cfgVFlashPartitionFlashOSVolLabel....243
cfgVFlashPartitionFormatType (ReadOnly)....243
cfgVFlashPartitionAccessType (Read/Write)....243
cfgVFlashPartitionAttachState (Read/Write)....243
cfgLogging....243
cfgLoggingSELOEMEventFilterEnable (Read/Write)....244
cfgRacSecurity....244
cfgRacSecCsrCommonName (Read/Write)....244
cfgRacSecCsrOrganizationName (Read/Write)....244
cfgRacSecCsrOrganizationUnit (Read/Write)....244
cfgRacSecCsrLocalityName (Read/Write)....245
cfgRacSecCsrStateName (Read/Write)....245
cfgRacSecCsrCountryCode (Read/Write)....245
cfgRacSecCsrEmailAddr (Read/Write)....245
cfgRacSecCsrKeySize (Read or Write)....245
cfgRacSecCsrKeySize (Read/Write)....246

4 Database Objects With Get and Set Commands....247
System.LCD....247
System.LCD.Configuration (Read or Write)....247
System.LCD.CurrentDisplay (Read Only)....248
System.LCD. LCDUserString (Read/Write)....248
System.Location....248
System.Location.Aisle (Read or Write)....248
System.Location.DataCenter (Read or Write)....248
System.Location.DeviceSize (Read Only)....249
System.Location.Rack.Name (Read or Write)....249
System.Location.Rack.Slot (Read or Write)....249
System.Location.RoomName (Read or Write)....249
System.Location.Chassis.Name (Read Only)....249
System.Location.Chassis.Slot (Read or Write)....250
System.Power....250
System.Power.Status (Read Only)....250
System.Power.ServerAllocation (Read Only)....250
System.Power.Avg.LastDay (Read Only)....250
System.Power.Avg.LastHour (Read Only)....250
System.Power.Avg.LastWeek (Read Only)....251
System.Power.Cap.ActivePolicy.Btuhr (Read Only)....251
System.Power.Cap.ActivePolicy.Name (Read Only)....251
System.Power.Cap.ActivePolicy.Watts (Read Only)....251
System.Power.Cap.Btuhr (Read or Write)....252
System.Power.Cap.Enable (Read or Write)....252
System.Power.Cap.MaxThreshold (Read Only)....252
System.Power.Cap.MinThreshold (Read Only)....252
System.Power.Cap.Percent (Read or Write)....253
System.Power.Cap.Watts (Read or Write)....253
System.Power.EnergyConsumption (Read Only)....253
System.Power.EnergyConsumption.Clear (Read or Write)....253
System.Power.EnergyConsumption.StarttimeStamp ( Read Only )....254
System.Power.Hotspare.Enable (Read or Write)....254
System.Power.Hotspare.PrimaryPSU (Read or Write)....254
System.Power.Max.Amps (Read Only)....254
System.Power.Max.Amps.TimeStamp (Read Only)....255
System.Power.Max.Headroom (Read Only)....255
System.Power.Max.LastDay (Read Only)....255
System.Power.Max.LastDay.TimeStamp (Read Only)....255
System.Power.Max.LastHour (Read Only)....256
System.Power.Max.LastHour.TimeStamp (Read Only)....256

System.Power.Max.LastWeek (Read Only)....256
System.Power.Max.LastWeek.TimeStamp (Read Only)....256
System.Power.Max.Power (Read Only)....256
System.Power.Max.Power.Timestamp (Read Only)....257
System.Power.Max.PowerClear (Read Only)....257
System.Power.Min.LastDay (Read Only)....257
System.Power.Min.LastDay.TimeStamp (Read Only)....257
System.Power.Min.LastHour (Read Only)....257
System.Power.Min.LastHour.Timestamp (Read Only)....258
System.Power.Min.LastWeek (Read Only)....258
System.Power.Min.LastWeek.TimeStamp (Read Only)....258
System.Power.PCIeAllocation (Read or Write)....258
System.Power.PFCEnable (Read or Write)....259
System.Power.RedundancyCapabilities (Read Only)....259
System.Power.RedundantState (Read Only)....259
System.Power.Supply....260
System.Power.Supply.CurrentDraw (Read Only)....260
System.Power.Supply.FwVer (Read Only)....260
System.Power.Supply.[i].MaxInputPower (Read Only)....260
System.Power.Supply.[i].MaxOutputPower (Read Only)....260
System.Power.Supply.[i].Status (Read Only)....261
System.Power.Supply.[i].Type (Read Only)....261
System.Power.Supply.[i].LineStatus (Read Only)....261
System.Power.Supply.[i].PMBusMonitoring (Read Only)....261
System.ServerOS....261
System.ServerOS.HostName (Read or Write)....261
System.ServerOS.OSName (Read or Write)....262
System.ServerOS.OSVersion (Read Only)....262
LC.LCAttributes....262
LC.LCAttributes.CollectSystemInventoryOnRestart (Read or Write)....262
LC.LCAttributes.LifecycleControllerState (Read / Write)....262
LC.LCAttributes.PartConfigurationUpdate (Read or Write)....263
LC.LCAttributes.PartFirmwareUpdate (Read or Write)....263
iDRAC.ActiveDirectory....263
iDRAC.ActiveDirectory.AuthTimeout....263
iDRAC.ActiveDirectory.CertValidationEnable (Read or Write)....263
iDRAC.ActiveDirectory.DCLookupByUserDomain (Read or Write)....264
iDRAC.ActiveDirectory.DCLookupDomainName (Read or Write)....264
iDRAC.ActiveDirectory.DCLookupEnable (Read or Write)....264
iDRAC.ActiveDirectory.DomainController1 (Read or Write)....265
iDRAC.ActiveDirectory.DomainController2 (Read or Write)....265
iDRAC.ActiveDirectory.DomainController3 (Read or Write)....265

iDRAC.ActiveDirectory.Enable (Read or Write)....265
iDRAC.ActiveDirectory.GCLookupEnable (Read or Write)....265
iDRAC.ActiveDirectory.GCRootDomain (Read or Write)....266
iDRAC.ActiveDirectory.GlobalCatalog1 (Read or Write)....266
iDRAC.ActiveDirectory.GlobalCatalog2 (Read or Write)....266
iDRAC.ActiveDirectory.GlobalCatalog3 (Read or Write)....266
iDRAC.ActiveDirectory.RacDomain (Read or Write)....267
iDRAC.ActiveDirectory.RacName (Read or Write)....267
iDRAC.ActiveDirectory.Schema (Read or Write)....267
iDRAC.ActiveDirectory.SSOEnable (Read or Write)....267
iDRAC.ADGroup....267
iDRAC.ADGroup.Domain (Read or Write)....268
iDRAC.ADGroup.Name (Read or Write)....268
iDRAC.ADGroup.Privilege (Read or Write)....268
iDRAC.AutoOSLock....268
iDRAC.AutoOSLock.AutoOSLockState (Read or Write)....268
iDRAC.EmailAlert....269
iDRAC.EmailAlert.Address (Read or Write)....269
iDRAC.EmailAlert.CustomMsg (Read or Write)....269
iDRAC.EmailAlert.Enable (Read or Write)....269
iDRAC.Info....269
iDRAC.Info.Build (Read Only)....269
iDRAC.Info.Description (Read Only)....270
iDRAC.Info.Name (Read Only)....270
iDRAC.Info.Product (Read Only)....270
iDRAC.Info.Type (Read Only)....270
iDRAC.Info.Version (Read Only)....270
iDRAC.IPBlocking....271
iDRAC.IPBlocking.BlockEnable (Read or Write)....271
iDRAC.IPBlocking.FailCount (Read or Write)....271
iDRAC.IPBlocking.FailWindow (Read or Write)....271
iDRAC.IPBlocking.PenaltyTime (Read or Write)....271
iDRAC.IPBlocking.RangeAddr (Read or Write)....272
iDRAC.IPBlocking.RangeEnable (Read or Write)....272
iDRAC.IPBlocking.RangeMask (Read or Write)....272
iDRAC.IPMILan....272
iDRAC.IPMILan.AlertEnable (Read or Write)....272
iDRAC.IPMILan.CommunityName (Read or Write)....273
iDRAC.IPMILan.Enable (Read or Write)....273
iDRAC.IPMILan.EncryptionKey (Read or Write)....273
iDRAC.IPMILan.PrivLimit (Read or Write)....273
iDRAC.IPMISerial....274

iDRAC.IPMISerial.BaudRate (Read or Write)....274
iDRAC.IPMISerial.ChanPrivLimit (Read or Write)....274
iDRAC.IPMISerial.ConnectionMode (Read or Write)....274
iDRAC.IPMISerial.DeleteControl (Read or Write)....275
iDRAC.IPMISerial.EchoControl (Read or Write)....275
iDRAC.IPMISerial.FlowControl (Read or Write)....275
iDRAC.IPMISerial.HandshakeControl (Read or Write)....275
iDRAC.IPMISerial.InputNewLineSeq (Read or Write)....276
iDRAC.IPMISerial.LineEdit (Read or Write)....276
iDRAC.IPMISerial.NewLineSeq (Read or Write)....276
iDRAC.IPMISOL....276
iDRAC.IPMISOL.AccumulateInterval (Read or Write)....277
iDRAC.IPMISOL.BaudRate (Read or Write)....277
iDRAC.IPMISOL.Enable (Read or Write)....277
iDRAC.IPMISOL.MinPrivilege (Read or Write)....277
iDRAC.IPMISOL.SendThreshold (Read or Write)....278
iDRAC.IPv4....278
iDRAC.IPv4.Address (Read or Write)....278
iDRAC.IPv4.DHCPEnable (Read or Write)....278
iDRAC.IPv4.DNS1 (Read or Write)....278
iDRAC.IPv4.DNS2 (Read or Write)....279
iDRAC.IPv4.DNSFromDHCP (Read or Write)....279
iDRAC.IPv4.Enable (Read or Write)....279
iDRAC.IPv4.Gateway (Read or Write)....279
iDRAC.IPv4.Netmask (Read or Write)....280
iDRAC.IPv4Static....280
iDRAC.IPv4Static.Address (Read or Write)....280
iDRAC.IPv4Static.DNS1 ( Read or Write )....280
iDRAC.IPv4Static.DNS2 (Read or Write)....280
iDRAC.IPv4Static.Gateway (Read or Write)....281
iDRAC.IPv4Static.Netmask (Read or Write)....281
iDRAC.IPv6....281
iDRAC.IPv6.Address 2 (Read Only)....281
iDRAC.IPv6.Address 4 (Read Only)....281
iDRAC.IPv6.Address 5 (Read Only)....282
iDRAC.IPv6.Address 6 (Read Only)....282
iDRAC.IPv6.Address 7 (Read Only)....282
iDRAC.IPv6.Address 8 (Read Only)....282
iDRAC.IPv6.Address 9 (Read Only)....282
iDRAC.IPv6.Address1 (Read or Write)....283
iDRAC.IPv6.Address10 (Read Only)....283
iDRAC.IPv6.Address11 (Read Only)....283

iDRAC.IPv6.Address12 (Read Only)....283
iDRAC.IPv6.Address13 (Read Only)....283
iDRAC.IPv6.Address14 (Read Only)....284
iDRAC.IPv6.Address15 (Read Only)....284
iDRAC.IPv6.Address3 (Read Only)....284
iDRAC.IPv6.AutoConfig (Read or Write)....284
iDRAC.IPv6.DNS1 (Read or Write)....284
iDRAC.IPv6.DNS2 (Read or Write)....285
iDRAC.IPv6.DNSFromDHCP6 (Read or Write)....285
iDRAC.IPv6.Enable (Read or Write)....285
iDRAC.IPv6.Gateway (Read or Write)....285
iDRAC.IPv6.LinkLocalAddress (Read or Write)....286
iDRAC.IPv6.PrefixLength (Read or Write)....286
iDRAC.IPv6Static....286
iDRAC.IPv6Static.Address1 (Read or Write)....286
iDRAC.IPv6Static.DNS1 (Read or Write)....286
iDRAC.IPv6Static.DNS2 (Read or Write)....287
iDRAC.IPv6Static.DNSFromDHCP6 (Read or Write)....287
iDRAC.IPv6Static.Gateway (Read or Write)....287
iDRAC.IPv6Static.PrefixLength (Read or Write)....287
iDRAC.IPv6URL....287
iDRAC.IPv6URL.URL (Read Only)....288
iDRAC.LDAP....288
iDRAC.LDAP.BaseDN (Read or Write)....288
iDRAC.LDAP.BindDN (Read or Write)....288
iDRAC.LDAP.BindPassword (Password)....288
iDRAC.LDAP.CertValidationEnable (Read or Write)....289
iDRAC.LDAP.Enable (Read or Write)....289
iDRAC.LDAP.GroupAttribute (Read or Write)....289
iDRAC.LDAP.GroupAttributeIsDN (Read or Write)....289
iDRAC.LDAP.Port (Read or Write)....290
iDRAC.LDAP.SearchFilter (Read or Write)....290
iDRAC.LDAP.Server (Read or Write)....290
iDRAC.LDAP.UserAttribute (Read or Write)....290
iDRAC.LDAPRoleGroup....290
iDRAC.LDAPRoleGroup.DN (Read or Write)....291
iDRAC.LDAPRoleGroup.Privilege (Read or Write)....291
iDRAC.LocalSecurity....291
iDRAC.LocalSecurity.LocalConfig (Read or Write)....291
iDRAC.LocalSecurity.PrebootConfig (Read or Write)....291
iDRAC.Logging....292
iDRAC.Logging.SELOEMEventFilterEnable (Read or Write)....292

iDRAC.NIC....292
iDRAC.NIC.AutoDetect (Read or Write)....292
iDRAC.NIC.Autoneg (Read or Write)....292
iDRAC.NIC.DedicatedNICScanTime (Read or Write)....293
iDRAC.NIC.DNSDomainFromDHCP (Read or Write)....293
iDRAC.NIC.DNSDomainName (Read or Write)....293
iDRAC.NIC.DNSDomainNameFromDHCP (Read or Write)....293
iDRAC.NIC.DNSRacName (Read or Write)....294
iDRAC.NIC.DNSRegister (Read or Write)....294
iDRAC.NIC.Duplex (Read or Write)....294
iDRAC.NIC.Enable (Read or Write)....294
iDRAC.NIC.Failover (Read or Write)....295
iDRAC.NIC.MACAddress (Read Only)....295
iDRAC.NIC.MTU (Read or Write)....295
iDRAC.NIC.Selection (Read or Write)....295
iDRAC.NIC.SharedNICScanTime (Read or Write)....296
iDRAC.NIC.Speed (Read or Write)....296
iDRAC.NIC.VLanEnable (Read Only)....296
iDRAC.NIC.VLanID (Read Only)....296
iDRAC.NIC.VLanPriority (Read Only)....297
iDRAC.NICStatic....297
iDRAC.NICStatic.DNSDomainFromDHCP (Read or Write)....297
iDRAC.NICStatic.DNSDomainName (Read or Write)....297
iDRAC.NTPConfigGroup....298
iDRAC.NTPConfigGroup.NTP1 (Read or Write)....298
iDRAC.NTPConfigGroup.NTP2 (Read or Write)....298
iDRAC.NTPConfigGroup.NTP3 (Read or Write)....298
iDRAC.NTPConfigGroup.NTPEnable (Read or Write)....298
iDRAC.NTPConfigGroup.NTPMaxDist (Read or Write)....299
iDRAC.OS-BMC....299
iDRAC.OS-BMC.AdminState (Read or Write)....299
iDRAC.OS-BMC.OSIpAddress (Read or Write)....299
iDRAC.OS-BMC.PTCapability (Read or Write)....299
iDRAC.Racadm....300
iDRAC.Racadm.Enable (Read or Write)....300
iDRAC.Racadm.Timeout (Read or Write)....300
iDRAC.RemoteHosts....300
iDRAC.RemoteHosts.SMTPServerIPAddress (Read or Write)....300
iDRAC.RFS....300
iDRAC.RFS.AttachMode (Read or Write)....301
iDRAC.RFS.MediaAttachState (Read Only)....301
iDRAC.Security....301

iDRAC.Security.CsrCommonName (Read or Write)....301
iDRAC.Security.CsrCountryCode (Read or Write)....301
iDRAC.Security.CsrEmailAddr (Read or Write)....302
iDRAC.Security.CsrKeySize (Read or Write)....302
iDRAC.Security.CsrLocalityName (Read or Write)....302
iDRAC.Security.CsrOrganizationName (Read or Write)....302
iDRAC.Security.CsrOrganizationUnit (Read or Write)....302
iDRAC.Security.CsrStateName (Read or Write)....303
iDRAC.Serial....303
iDRAC.Serial.BaudRate (Read or Write)....303
iDRAC.Serial.Command (Read or Write)....303
iDRAC.Serial.Enable (Read or Write)....304
iDRAC.Serial.HistorySize (Read or Write)....304
iDRAC.Serial.IdleTimeout (Read or Write)....304
iDRAC.Serial.NoAuth (Read or Write)....304
iDRAC.SerialRedirection....304
iDRAC.SerialRedirection.Enable (Read or Write)....305
iDRAC.SerialRedirection.QuitKey (Read or Write)....305
iDRAC.SmartCard....305
iDRAC.SmartCard.SmartCardCRLEnable (Read or Write)....305
iDRAC.SmartCard.SmartCardLogonEnable (Read or Write)....305
iDRAC.SNMP....306
iDRAC.SNMP.AgentCommunity (Read or Write)....306
iDRAC.SNMP.AgentEnable (Read or Write)....306
iDRAC.SNMP.Alert.DestAddr (Read or Write)....306
iDRAC.SNMP.Alert.Enable (Read or Write)....306
iDRAC.SNMP.SNMPProtocol (Read or Write)....307
iDRAC.SNMP.TrapFormat (Read or Write)....307
iDRAC.SSH....307
iDRAC.SSH.Enable (Read or Write)....307
iDRAC.SSH.Port (Read or Write)....307
iDRAC.SSH.Timeout (Read or Write)....308
iDRAC.SysLog....308
iDRAC.SysLog.Port (Read or Write)....308
iDRAC.SysLog.PowerLogEnable (Read or Write)....308
iDRAC.SysLog.PowerLogInterval (Read or Write)....308
iDRAC.SysLog.Server1 (Read or Write)....309
iDRAC.SysLog.Server2 (Read or Write)....309
iDRAC.SysLog.Server3 (Read or Write)....309
iDRAC.SysLog.SysLogEnable (Read or Write)....309
iDRAC.Telnet....309
iDRAC.Telnet.Enable (Read or Write)....310

iDRAC.Telnet.Port (Read or Write)....310
iDRAC.Telnet.Timeout (Read or Write)....310
iDRAC.Time....310
iDRAC.Time.Timezone (Read or Write)....310
iDRAC.Tuning....311
iDRAC.Tuning.DefaultCredentialWarning (Read or Write)....311
iDRAC.Update....311
iDRAC.Update.FwUpdateIPAddr (Read or Write)....311
iDRAC.Update.FwUpdatePath (Read or Write)....311
iDRAC.Update.FwUpdateTFTPEnable (Read or Write)....311
iDRAC.UserDomain....312
iDRAC.UserDomain.Name (Read or Write)....312
iDRAC.Users....312
iDRAC.Users.Enable (Read or Write)....312
iDRAC.Users.IpmiLanPrivilege (Read or Write)....312
iDRAC.Users.IpmiSerialPrivilege (Read or Write)....313
iDRAC.Users.Password (Write Only)....313
iDRAC.Users.Privilege (Read or Write)....313
iDRAC.Users.SNMPv3AuthenticationType (Read or Write)....313
iDRAC.Users.SNMPv3Enable (Read or Write)....314
iDRAC.Users.SNMPv3PrivacyType (Read or Write)....314
iDRAC.Users.SolEnable (Read or Write)....314
iDRAC.Users.UserName (Read or Write)....314
iDRAC.VirtualConsole....315
iDRAC.VirtualConsole.AccessPrivilege (Read or Write)....315
iDRAC.VirtualConsole.Enable (Read or Write)....315
iDRAC.VirtualConsole.EncryptEnable (Read or Write)....315
iDRAC.VirtualConsole.LocalVideo (Read or Write)....315
iDRAC.VirtualConsole.MaxSessions (Read or Write)....316
iDRAC.VirtualConsole.PluginType (Read or Write)....316
iDRAC.VirtualConsole.Port (Read or Write)....316
iDRAC.VirtualConsole.Timeout (Read or Write)....316
iDRAC.VirtualMedia....317
iDRAC.VirtualMedia.Attached (Read or Write)....317
iDRAC.VirtualMedia.BootOnce (Read or Write)....317
iDRAC.VirtualMedia.FloppyEmulation (Read or Write)....317
iDRAC.WebServer....317
iDRAC.WebServer.Enable (Read or Write)....318
iDRAC.WebServer.HttpPort (Read or Write)....318
iDRAC.WebServer.HttpsPort (Read or Write)....318
iDRAC.WebServer.LowerEncryptionBitLength (Read or Write)....318
iDRAC.WebServer.Timeout (Read or Write)....318

BIOS.BiosBootSettings....319
BIOS.BiosBootSettings.BiosBootSeq (Read or Write)....319
BIOS.BiosBootSettings.BootMode (Read or Write)....319
BIOS.BiosBootSettings.BootSeqRetry (Read or Write)....319
BIOS.BiosBootSettings.HddSeq (Read or Write)....319
BIOS.BiosBootSettings.UefiBootSeq (Read or Write)....320
BIOS.IntegratedDevices....320
BIOS.IntegratedDevices.EmbNic1 (Read or Write)....320
BIOS.IntegratedDevices.EmbNic1Nic2 (Read or Write)....320
BIOS.IntegratedDevices.EmbNic2 (Read or Write)....321
BIOS.IntegratedDevices.EmbNic3 (Read or Write)....321
BIOS.IntegratedDevices.EmbNic3Nic4 (Read or Write)....321
BIOS.IntegratedDevices.EmbNic4 (Read or Write)....322
BIOS.IntegratedDevices.EmbVideo (Read or Write)....322
BIOS.IntegratedDevices.IntegratedNetwork1 (Read or Write)....322
BIOS.IntegratedDevices.IntegratedNetwork2 (Read or Write)....322
BIOS.IntegratedDevices.IntegratedRaid (Read or Write)....323
BIOS.IntegratedDevices.IntegratedSas (Read or Write)....323
BIOS.IntegratedDevices.InternalSdCard (Read or Write)....323
BIOS.IntegratedDevices.InternalSdCardRedundancy (Read or Write)....323
BIOS.IntegratedDevices.InternalUsb (Read or Write)....324
BIOS.IntegratedDevices.InternalUsb1 (Read or Write)....324
BIOS.IntegratedDevices.InternalUsb2 (Read or Write)....324
BIOS.IntegratedDevices.OsWatchdogTimer (Read or Write)....324
BIOS.IntegratedDevices.SriovGlobalEnable (Read or Write)....325
BIOS.IntegratedDevices.UsbPorts (Read or Write)....325
BIOS.MemSettings....325
BIOS.MemSettings.MemLowPower (Read or Write)....325
BIOS.MemSettings.MemOpMode (Read Only)....325
BIOS.MemSettings.MemOptimizer (Read or Write)....326
BIOS.MemSettings.MemOpVoltage (Read Only)....326
BIOS.MemSettings.MemTest (Read or Write)....326
BIOS.MemSettings.MemVolt (Read or Write)....327
BIOS.MemSettings.NodeInterleave (Read or Write)....327
BIOS.MemSettings.RedundantMem (Read or Write)....327
BIOS.MemSettings.RedundantMemCfgValid (Read Only)....327
BIOS.MemSettings.RedundantMemInUse (Read Only)....328
BIOS.MemSettings.SnoopFilter (Read or Write)....328
BIOS.MemSettings.SysMemSize (Read Only)....328
BIOS.MemSettings.SysMemSpeed (Read Only)....328
BIOS.MemSettings.SysMemType (Read Only)....329
BIOS.MemSettings.SysMemVolt (Read Only)....329

BIOS.MemSettings.VideoMem (Read Only)....329
BIOS.MiscSettings....329
BIOS.MiscSettings.AssetTag (Read or Write)....329
BIOS.MiscSettings.ErrPrompt (Read or Write)....330
BIOS.MiscSettings.NumLock (Read or Write)....330
BIOS.MiscSettings.ReportKbdErr (Read or Write)....330
BIOS.MiscSettings.SystemUefiShell (Read or Write)....330
BIOS.OneTimeBoot....331
BIOS.OneTimeBoot.OneTimeBootMode (Read or Write)....331
BIOS.OneTimeBoot.OneTimeBootSeqDev (Read or Write)....331
BIOS.OneTimeBoot.OneTimeCustomBootStr (Read or Write)....331
BIOS.OneTimeBoot.OneTimeHddSeqDev (Read or Write)....331
BIOS.OneTimeBoot.OneTimeUefiBootSeqDev (Read or Write)....332
BIOS.ProcSettings....332
BIOS.ProcSettings.CorePerfBoost (Read or Write)....332
BIOS.ProcSettings.DataReuse ( Read / Write )....332
BIOS.ProcSettings.DcuIpPrefetcher (Read or Write)....332
BIOS.ProcSettings.DcuStreamerPrefetcher (Read or Write)....333
BIOS.ProcSettings.DmaVirtualization (Read or Write)....333
BIOS.ProcSettings.LogicalProc (Read or Write)....333
BIOS.ProcSettings.Proc1Brand (Read Only)....334
BIOS.ProcSettings.Proc1Id (Read Only)....334
BIOS.ProcSettings.Proc1L2Cache (Read Only)....334
BIOS.ProcSettings.Proc1L3Cache (Read Only)....334
BIOS.ProcSettings.Proc1NumCores (Read Only)....334
BIOS.ProcSettings.Proc2Brand (Read Only)....335
BIOS.ProcSettings.Proc2Id (Read Only)....335
BIOS.ProcSettings.Proc2L2Cache (Read Only)....335
BIOS.ProcSettings.Proc2L3Cache (Read Only)....335
BIOS.ProcSettings.Proc2NumCores (Read Only)....335
BIOS.ProcSettings.Proc3Brand (Read Only)....336
BIOS.ProcSettings.Proc3Id (Read Only)....336
BIOS.ProcSettings.Proc3L2Cache (Read Only)....336
BIOS.ProcSettings.Proc3L3Cache (Read Only)....336
BIOS.ProcSettings.Proc3NumCores (Read Only)....336
BIOS.ProcSettings.Proc4Brand (Read Only)....337
BIOS.ProcSettings.Proc4Id (Read Only)....337
BIOS.ProcSettings.Proc4L2Cache (Read Only)....337
BIOS.ProcSettings.Proc4L3Cache (Read Only)....337
BIOS.ProcSettings.Proc4NumCores (Read Only)....337
BIOS.ProcSettings.Proc64bit (Read Only)....338
BIOS.ProcSettings.ProcAdjCacheLine (Read or Write)....338

BIOS.ProcSettings.ProcBusSpeed (Read Only)....338
BIOS.ProcSettings.ProcCores (Read or Write)....338
BIOS.ProcSettings.ProcCoreSpeed (Read Only)....339
BIOS.ProcSettings.ProcDramPrefetcher (Read or Write)....339
BIOS.ProcSettings.ProcExecuteDisable (Read or Write)....339
BIOS.ProcSettings.ProcHpcMode (Read or Write)....340
BIOS.ProcSettings.ProcHtAssist (Read or Write)....340
BIOS.ProcSettings.ProcHwPrefetcher (Read or Write)....340
BIOS.ProcSettings.ProcHyperTransport (Read or Write)....340
BIOS.ProcSettings.ProcSoftwarePrefetcher (Read or Write)....341
BIOS.ProcSettings.ProcVirtualization (Read or Write)....341
BIOS.ProcSettings.QpiBandwidthPriority (Read or Write)....341
BIOS.ProcSettings.QpiSpeed (Read or Write)....341
BIOS.ProcSettings.RtidSetting (Read or Write)....342
BIOS.SataSettings....342
BIOS.SataSettings.EmbSata (Read or Write)....342
BIOS.SataSettings.eSataPort1 (Read or Write)....342
BIOS.SataSettings.eSataPort1Capacity (Read Only)....343
BIOS.SataSettings.eSataPort1DriveType (Read Only)....343
BIOS.SataSettings.eSataPort1Model (Read Only)....343
BIOS.SataSettings.SataPortA (Read or Write)....343
BIOS.SataSettings.SataPortACapacity (Read Only)....343
BIOS.SataSettings.SataPortADriveType (Read Only)....344
BIOS.SataSettings.SataPortAModel (Read Only)....344
BIOS.SataSettings.SataPortB (Read or Write)....344
BIOS.SataSettings.SataPortBCapacity (Read Only)....344
BIOS.SataSettings.SataPortBDriveType (Read Only)....345
BIOS.SataSettings.SataPortBModel (Read Only)....345
BIOS.SataSettings.SataPortC (Read or Write)....345
BIOS.SataSettings.SataPortCCapacity (Read Only)....345
BIOS.SataSettings.SataPortCDriveType (Read Only)....345
BIOS.SataSettings.SataPortCModel (Read Only)....346
BIOS.SataSettings.SataPortD (Read or Write)....346
BIOS.SataSettings.SataPortDCapacity (Read Only)....346
BIOS.SataSettings.SataPortDDriveType (Read Only)....346
BIOS.SataSettings.SataPortDDriveType (Read Only)....347
BIOS.SataSettings.SataPortDModel (Read Only)....347
BIOS.SataSettings.SataPortE (Read or Write)....347
BIOS.SataSettings.SataPortECapacity (Read Only)....347
BIOS.SataSettings.SataPortEDriveType (Read Only)....347
BIOS.SataSettings.SataPortEModel (Read Only)....348
BIOS.SataSettings.SataPortF (Read or Write)....348

BIOS.SataSettings.SataPortFCapacity (Read Only)....348
BIOS.SataSettings.SataPortFDriveType (Read Only)....348
BIOS.SataSettings.SataPortFModel (Read Only)....349
BIOS.SataSettings.SataPortG (Read or Write)....349
BIOS.SataSettings.SataPortGCapacity (Read Only)....349
BIOS.SataSettings.SataPortGDriveType (Read Only)....349
BIOS.SataSettings.SataPortGModel (Read Only)....349
BIOS.SataSettings.SataPortH (Read or Write)....350
BIOS.SataSettings.SataPortHCapacity (Read Only)....350
BIOS.SataSettings.SataPortHDriveType (Read Only)....350
BIOS.SataSettings.SataPortHModel (Read Only)....350
BIOS.SerialCommSettings....350
BIOS.SerialCommSettings.ConTermType (Read or Write)....351
BIOS.SerialCommSettings.ExtSerialConnector (Read or Write)....351
BIOS.SerialCommSettings.FailSafeBaud (Read or Write)....351
BIOS.SerialCommSettings.RedirAfterBoot (Read or Write)....351
BIOS.SerialCommSettings.SerialComm (Read or Write)....352
BIOS.SerialCommSettings.SerialPortAddress (Read or Write)....352
BIOS.SlotDisablement....352
BIOS.SlotDisablement.Slot1 (Read or Write)....352
BIOS.SlotDisablement.Slot2 (Read or Write)....353
BIOS.SlotDisablement.Slot3 (Read or Write)....353
BIOS.SlotDisablement.Slot4 (Read or Write)....353
BIOS.SlotDisablement.Slot5 (Read or Write)....353
BIOS.SlotDisablement.Slot6 (Read or Write)....354
BIOS.SlotDisablement.Slot7 (Read or Write)....354
BIOS.SysInformation....354
BIOS.SysInformation.SysMfrContactInfo (Read Only)....354
BIOS.SysInformation.SystemBiosVersion (Read Only)....355
BIOS.SysInformation.SystemCpldVersion (Read Only)....355
BIOS.SysInformation.SystemManufacturer (Read Only)....355
BIOS.SysInformation.SystemModelName (Read Only)....355
BIOS.SysInformation.SystemServiceTag (Read Only)....355
BIOS.SysProfileSettings....356
BIOS.SysProfileSettings.MemFrequency (Read or Write)....356
BIOS.SysProfileSettings.MemPatrolScrub (Read or Write)....356
BIOS.SysProfileSettings.MemPwrMgmt (Read or Write)....356
BIOS.SysProfileSettings.MemRefreshRate (Read or Write)....357
BIOS.SysProfileSettings.PowerDelivery (Read or Write)....357
BIOS.SysProfileSettings.ProcC1E (Read or Write)....357
BIOS.SysProfileSettings.ProcCStates (Read or Write)....358
BIOS.SysProfileSettings.ProcPwrPerf (Read or Write)....358

BIOS.SysProfileSettings.ProcTurboMode (Read or Write)....358
BIOS.SysProfileSettings.SysProfile (Read or Write)....359
BIOS.SysSecurity....359
BIOS.SysSecurity.AcPwrRcvry (Read or Write)....359
BIOS.SysSecurity.AcPwrRcvryDelay (Read or Write)....359
BIOS.SysSecurity.AcPwrRcvryUserDelay (Read Only)....360
BIOS.SysSecurity.IntelTxt (Read or Write)....360
BIOS.SysSecurity.NmiButton (Read or Write)....360
BIOS.SysSecurity.PasswordStatus (Read or Write)....360
BIOS.SysSecurity.PwrButton (Read or Write)....361
BIOS.SysSecurity.SetupPassword (Read or Write)....361
BIOS.SysSecurity.SysPassword (Read Only)....361
BIOS.SysSecurity.TcmActivation (Read or Write)....362
BIOS.SysSecurity.TcmClear (Read or Write)....362
BIOS.SysSecurity.TcmSecurity (Read or Write)....362
BIOS.SysSecurity.TpmActivation (Read or Write)....363
BIOS.SysSecurity.TpmClear (Read or Write)....363
BIOS.SysSecurity.TpmSecurity (Read or Write)....363
NIC.DCBSettings....364
NIC.DCBSettings.CongestionNotification (Read Only)....364
NIC.DCBSettings.DCBExchangeProtocol (Read Only)....364
NIC.DCBSettings.EnhancedTransmissionSelection (Read Only)....364
NIC.DCBSettings.PriorityFlowControl (Read Only)....364
NIC.DeviceLevelConfig....365
NIC.DeviceLevelConfig.EVBModesSupport (Read Only)....365
NIC.DeviceLevelConfig.FlowControlSetting (Read or Write)....365
NIC.DeviceLevelConfig.SRIOVSupport (Read Only)....365
NIC.FCOECapabilities....366
NIC.FCOECapabilities.AddressingMode (Read Only)....366
NIC.FCOECapabilities.MaxFrameSize (Read Only)....366
NIC.FCOECapabilities.MaxIOsPerSession (Read Only)....366
NIC.FCOECapabilities.MaxNPIVPerPort (Read Only)....366
NIC.FCOECapabilities.MaxNumberExchanges (Read Only)....367
NIC.FCOECapabilities.MaxNumberLogins (Read Only)....367
NIC.FCOECapabilities.MaxNumberOfFCTargets (Read Only)....367
NIC.FCOECapabilities.MaxNumberOutStandingCommands (Read Only)....367
NIC.FCOECapabilities.MTUReconfigurationSupport (Read Only)....367
NIC.FCoEConfiguration....368
NIC.FCoEConfiguration.ConnectFirstFCoETarget (Read or Write)....368
NIC.FCoEConfiguration.FirstFCoEBootTargetLUN (Read or Write)....368
NIC.FCoEConfiguration.FirstFCoEFCFVLANID (Read or Write)....368
NIC.FCoEConfiguration.FirstFCoEWWPNTarget (Read or Write)....369

NIC.FCoEConfiguration.MTUParams (Read or Write)....369
NIC.FCoEGenParams....369
NIC.FCoEGenParams.FCoEBootScanSelection (Read or Write)....369
NIC.FCoEGenParams.FCoEFabricDiscoveryRetryCnt (Read or Write)....370
NIC.FCoEGenParams.FCoEFirstHddTarget (Read or Write)....370
NIC.FCoEGenParams.FCoELnkUpDelayTime (Read or Write)....370
NIC.FCoEGenParams.FCoELunBusyRetryCnt (Read or Write)....370
NIC.FCoEGenParams.FCoETgtBoot (Read or Write)....371
NIC.FrmwImgMenu....371
NIC.FrmwImgMenu.ControllerBIOSVersion (Read Only)....371
NIC.FrmwImgMenu.EFIVersion (Read Only)....371
NIC.FrmwImgMenu.FamilyVersion (Read Only)....371
NIC.GlobalBandwidthAllocation....372
NIC.GlobalBandwidthAllocation.MaxBandwidth (Read or Write)....372
NIC.GlobalBandwidthAllocation.MinBandwidth (Read or Write)....372
NIC.IscsiFirstTgtParams....372
NIC.IscsiFirstTgtParams.ConnectFirstTgt (Read or Write)....372
NIC.IscsiFirstTgtParams.FirstTgtBootLun (Read or Write)....372
NIC.IscsiFirstTgtParams.FirstTgtChapId (Read or Write)....373
NIC.IscsiFirstTgtParams.FirstTgtChapPwd (Password)....373
NIC.IscsiFirstTgtParams.FirstTgtIpAddress (Read or Write)....373
NIC.IscsiFirstTgtParams.FirstTgtIscsiName (Read or Write)....373
NIC.IscsiFirstTgtParams.FirstTgtTcpPort (Read or Write)....374
NIC.IscsiGenParams....374
NIC.IscsiGenParams.ChapAuthEnable (Read or Write)....374
NIC.IscsiGenParams.ChapMutualAuth (Read or Write)....374
NIC.IscsiGenParams.DhcpVendId (Read or Write)....375
NIC.IscsiGenParams.FirstHddTarget (Read or Write)....375
NIC.IscsiGenParams.IpAutoConfig (Read or Write)....375
NIC.IscsiGenParams.IpVer (Read or Write)....375
NIC.IscsiGenParams.IscsiViaDHCP (Read or Write)....376
NIC.IscsiGenParams.LnkUpDelayTime (Read or Write)....376
NIC.IscsiGenParams.LunBusyRetryCnt (Read or Write)....376
NIC.IscsiGenParams.TcpIpViaDHCP (Read or Write)....376
NIC.IscsiGenParams.TcpTimestmp (Read or Write)....377
NIC.IscsiGenParams.WinHbaBootMode (Read or Write)....377
NIC.IscsiInitiatorParams....377
NIC.IscsiInitiatorParams.IscsiInitiatorChapId (Read or Write)....377
NIC.IscsiInitiatorParams.IscsiInitiatorChapPwd (Password)....378
NIC.IscsiInitiatorParams.IscsiInitiatorGateway (Read or Write)....378
NIC.IscsiInitiatorParams.IscsiInitiatorIpAddr (Read or Write)....378
NIC.IscsiInitiatorParams.IscsiInitiatorName (Read or Write)....378

NIC.IscsiInitiatorParams.IscsiInitiatorPrimDns (Read or Write)....379
NIC.IscsiInitiatorParams.IscsiInitiatorSecDns (Read or Write)....379
NIC.IscsiInitiatorParams.IscsiInitiatorSubnet (Read or Write)....379
NIC.IscsiInitiatorParams.IscsiInitiatorSubnetPrefix (Read or Write)....379
NIC.IscsiSecondaryDeviceParams....379
NIC.IscsiSecondaryDeviceParams.SecondaryDeviceMacAddr (Read or Write)....380
NIC.IscsiSecondaryDeviceParams.UseIndTgtName (Read or Write)....380
NIC.IscsiSecondaryDeviceParams.UseIndTgtPortal (Read or Write)....380
NIC.IscsiSecondTgtParams....380
NIC.IscsiSecondTgtParams.ConnectSecondTgt (Read or Write)....380
NIC.IscsiSecondTgtParams.SecondTgtBootLun (Read or Write)....381
NIC.IscsiSecondTgtParams.SecondTgtChapId (Read or Write)....381
NIC.IscsiSecondTgtParams.SecondTgtChapPwd (Password)....381
NIC.IscsiSecondTgtParams.SecondTgtIpAddress (Read or Write)....381
NIC.IscsiSecondTgtParams.SecondTgtIscsiName (Read or Write)....382
NIC.IscsiSecondTgtParams.SecondTgtTcpPort (Read or Write)....382
NIC.NICConfig....382
NIC.NICConfig.LegacyBootProto (Read or Write)....382
NIC.NICConfig.LnkSpeed (Read or Write)....383
NIC.NICConfig.VLanId (Read or Write)....383
NIC.NICConfig.VLanMode (Read or Write)....383
NIC.NICConfig.WakeOnLan (Read or Write)....383
NIC.NICConfig.WakeOnLanLnkSpeed (Read or Write)....384
NIC.NICPartitioningConfig....384
NIC.NICPartitioningConfig.NicPartitioning (Read or Write)....384
NIC.NICPartitioningConfig.NumberPCIEFunctionsEnabled (Read Only)....384
NIC.NICPartitioningConfig.NumberPCIEFunctionsSupported (Read Only)....385
NIC.VndrConfigGroup.BusDeviceFunction (Read Only)....385
NIC.VndrConfigGroup.BlnkLeds (Read or Write)....385
NIC.VndrConfigGroup.ChipMdl (Read Only)....385
NIC.VndrConfigGroup.DCBXSupport (Read Only)....385
NIC.VndrConfigGroup.DeviceName (Read Only)....386
NIC.VndrConfigGroup.EnergyEfficientEthernet (Read Only)....386
NIC.VndrConfigGroup.FCoEBootSupport (Read Only)....386
NIC.VndrConfigGroup.FCoEOffloadMode (Read or Write)....386
NIC.VndrConfigGroup.FCoEOffloadSupport (Read Only)....387
NIC.VndrConfigGroup.FeatureLicensingSupport (Read Only)....387
NIC.VndrConfigGroup.FIPMacAddr (Read Only)....387
NIC.VndrConfigGroup.FlexAddressing (Read Only)....387
NIC.VndrConfigGroup.iSCSIBootSupport (Read Only)....387
NIC.VndrConfigGroup.ISCSIMacAddr (Read Only)....388
NIC.VndrConfigGroup.iSCSIOffloadMode (Read or Write)....388

NIC.VndrConfigGroup.iSCSIOffloadSupport (Read Only)....388
NIC.VndrConfigGroup.LinkStatus (Read Only)....388
NIC.VndrConfigGroup.MacAddr (Read Only)....389
NIC.VndrConfigGroup.NicMode (Read or Write)....389
NIC.VndrConfigGroup.NicPartitioningSupport (Read Only)....389
NIC.VndrConfigGroup.NWManagementPassThrough (Read Only)....389
NIC.VndrConfigGroup.OnChipThermalSensor (Read Only)....389
NIC.VndrConfigGroup.OSBMCManagementPassThrough (Read Only)....390
NIC.VndrConfigGroup.PCIDeviceID (Read Only)....390
NIC.VndrConfigGroup.PXEBootSupport (Read Only)....390
NIC.VndrConfigGroup.RemotePHY (Read Only)....390
NIC.VndrConfigGroup.RXFlowControl (Read Only)....391
NIC.VndrConfigGroup.TOESupport (Read Only)....391
NIC.VndrConfigGroup.TXBandwidthControlMaximum (Read Only)....391
NIC.VndrConfigGroup.TXBandwidthControlMinimum (Read Only)....391
NIC.VndrConfigGroup.TXFlowControl (Read Only)....392
NIC.VndrConfigGroup.VirtFIPMacAddr (Read or Write)....392
NIC.VndrConfigGroup.VirtIscsiMacAddr (Read or Write)....392
NIC.VndrConfigGroup.VirtMacAddr (Read or Write)....392
NIC.VndrConfigGroup.VirtualLinkControl (Read or Write)....393
NIC.VndrConfigGroup.VirtWWN (Read or Write)....393
NIC.VndrConfigGroup.VirtWWPN (Read Only)....393
NIC.VndrConfigGroup.WWN (Read Only)....393
NIC.VndrConfigGroup.WWPN (Read Only)....393

# 1 Introduction

This document provides information about the RACADM subcommands, supported RACADM interfaces, and property database groups and object definitions for the following:

- iDRAC Enterprise or Express for Blade Servers
- iDRAC Enterprise or Express on Rack and Tower Servers
- Dell Chassis System (CMC)

**NOTE:** In this version of RACADM, the Linux shell features such as ctrl+d, home, del, and end shortcut keys are not supported.

## New in This Release

- For iDRAC7 version 1.30.30
  - Manage NIC and BIOS objects using the get and set subcommands.
  - Create configuration and reboot jobs using the jobqueue subcommand.
  - Update device firmware for all devices supported by Lifecycle Controller using update subcommand.
  - Backup and Restore System configuration using the systemconfig subcommand.
  - Import and export configuration XML file using the set and get subcommands.
  - Display or export hardware inventory using the hwinventory subcommand.
  - Enhanced RACADM shell with autocomplete and CD based groups and objects navigation.
  - Enable iDRAC7 to send SNMP traps in V1, V2, and V3 format or only in V3 format using the iDRAC.SNMP group.
  - Improved security features such as default credential warning and alerts for the user logging.
  - Automatically lock the operating system using objects in the iDRAC.AutoOSLock group.
  - Configure the iDRAC NIC using objects in the iDRAC.NIC group.
  - Configure the properties of NTP server using objects in the iDRAC.NTPConfigGroup group.
  - Manage the OS to iDRAC pass-through feature using objects in the iDRAC.OS-BMC group.
  - Manage Custom Signing SSL signing certificate from iDRAC using the sslcertdownload, sslcertupload, sslcertview, and sslcertdelete subcommands.
  - Boot to Lifecycle Controller and UEFI using objects in the cfgServerInfo group.
  - View CPU details such as processor automatic throttling and predictive failure information using the getsensorInfo subcommand.
  - View health and state information for Dual In-line Memory Modules (DIMMs) using the getsensorInfo subcommand.
- For CMC version 4.3:
  - Support to configure Dell EqualLogic PS-M4110 Blade Array.
  - Reset iDRAC without rebooting blade server from CMC.

# Supported RACADM Interfaces

The RACADM command-line utility provides a scriptable interface that allows you to locally or remotely configure your Remote Access Controller (RAC). The utility runs on the management station and the managed system. It is available on the *Dell OpenManage Systems Management and Documentation* DVD or at **support.dell.com**.

The RACADM utility supports the following interfaces:

- Local — Supports executing RACADM commands from the managed server's operating system. You must install the OpenManage software on the managed server to run local RACADM commands. Only one instance of Local RACADM can be executed on a system at a time. If the user tries to open another instance, an error message is displayed and the second instance of Local RACADM closes immediately. To download the local RACADM tool from **support.dell.com**, select **Drivers and Downloads**, select the server, and then select **Systems Management → Dell Toolkit** .
- SSH or Telnet — Also known as Firmware RACADM. Firmware RACADM is accessible by logging in to iDRAC7 using SSH or Telnet. You do not have to specify the iDRAC7 IP, user name, or password to run Firmware RACADM commands. Similar to Local RACADM, after you enter the RACADM prompt, directly run the commands without the RACADM prefix.
- Remote — Supports executing RACADM commands from a remote management station such as a laptop or desktop. You must install the DRAC Tools utility from the OpenManage software on the remote computer to run Remote RACADM commands. To execute Remote RACADM commands, you must formulate the command like a Local or SSH/Telnet RACADM command except that you must also use the **–r –i** options or the **–r –u –p** options. For more information on these options, see RACADM Subcommand Details. To download the local RACADM tool from **support.dell.com**, select **Drivers and Downloads**, select the server, and then select **Systems Management → DRAC Tools** .

# RACADM Syntax Usage

The following section describes the syntax usage for Local, SSH/Telnet, and Remote RACADM.

## Local RACADM

```
racadm getconfig -g <groupname> [-o <objectname>]
[-i <indexnumber>]

racadm <subcommand>
```

**Example**

```
racadm getconfig -g idracinfo

racadm getsysinfo
```

## SSH or Telnet RACADM

```
racadm getconfig -g <groupname> [-o <objectname>]
[-i <indexnumber>]

racadm <subcommand>
```

**Example**

```
racadm getconfig -g idracinfo

racadm getsysinfo
```

## Remote RACADM

```
racadm -r <racIpAddr> -u <username> -p <password> getconfig -g <groupname> [-o
<objectname>] [-i <indexnumber>]

racadm -r <racIpAddr> -u <username> -p <password> <subcommand>
```

**Example**

```
racadm -r <racIpAddr> -u <username> -p <password> getconfig -g <groupname>
idracinfo

racadm -r <racIpAddr> -u <username> -p <password> getsysinfo
```

## RACADM Command Options

The following table lists the options for the RACADM command:

| Option | Description |
|---|---|
| **-r***<racIpAddr>*<br>**-r** *<racIpAddr>* : *<port number>* | Specifies the controller's remote IP address.<br>Use:*<port number>* if the iDRAC port number is not the default port (443) |
| **-u** *<username>* | Specifies the user name that is used to authenticate the command transaction. If the **-u** option is used, the **-p** option must be used, and the **-i** option (interactive) is not allowed. |
| **-p** *<password>* | Specifies the password used to authenticate the command transaction. If the **-p** option is used, the **-i** option is not allowed. |
| **-S** | Specifies that RACADM should check for invalid certificate errors. RACADM stops the execution of the command with an error message if it detects an invalid certificate. |
| **-i** *<indexnumber>* | Specifies the index number for the indexed group, if applicable. |
| **-g** *<groupname>* | Specifies the group name if applicable. |
| **-o** *<objectname>* | Specifies the object name if applicable. |

The following table provides the supported RACADM interfaces for iDRAC Enterprise and iDRAC Express.

| iDRAC Type | Local RACADM | SSH/Telnet RACADM | Remote RACADM |
|---|---|---|---|
| iDRAC Enterprise | Yes | Yes | Yes |
| iDRAC Express | Yes | Yes | Yes |
| CMC | No | Yes | Yes |

**NOTE:** Multiple instances of remote RACADM can be executed on a management station, while only one instance of local RACADM can be executed on a managed node.

# Supported RACADM Subcommands

The following table provides the list of RACADM subcommands and their corresponding interface support. For detailed information of the RACADM subcommands including syntax and valid entries, see RACADM Subcommand Details.

| Subcommand | iDRAC on Blade Servers | | | iDRAC on Rack and Tower Servers | | | CMC | |
|---|---|---|---|---|---|---|---|---|
| | Telnet/SSH/Serial | Local RACADM | Remote RACADM | Telnet/SSH/Serial | Local RACADM | Remote RACADM | Telnet/SSH/Serial | Remote RACADM |
| "?" and "? *<subcommand>*" | No | No | No | No | No | No | Yes | Yes |
| arp | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| chassisaction | No | No | No | No | No | No | Yes | Yes |
| clearasrscreen | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| closessn | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| clrsel | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| cmcchangeover | No | No | No | No | No | No | Yes | Yes |
| config | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| connect | No | No | No | No | No | No | Yes | Yes |
| coredump | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| coredumpdelete | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| deploy | No | No | No | No | No | No | Yes | Yes |
| eventfilters | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| feature | No | No | No | No | No | No | Yes | Yes |
| featurecard | No | No | No | No | No | No | Yes | Yes |
| fwupdate | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| get | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| getarraycfg | No | No | No | No | No | No | Yes | Yes |
| getassettag | No | No | No | No | No | No | Yes | Yes |
| getchassisname | No | No | No | No | No | No | Yes | Yes |
| getconfig | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getdcinfo | No | No | No | No | No | No | Yes | Yes |
| getfanreqinfo | No | No | No | No | No | No | Yes | Yes |
| getflexaddr | No | No | No | No | No | No | Yes | Yes |

| Subcommand | iDRAC on Blade Servers | | | iDRAC on Rack and Tower Servers | | | CMC | |
|---|---|---|---|---|---|---|---|---|
| getioinfo | No | No | No | No | No | No | Yes | Yes |
| getkvminfo | No | No | No | No | No | No | Yes | Yes |
| getled | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getmacaddress | No | No | No | No | No | No | Yes | Yes |
| getmodinfo | No | No | No | No | No | No | Yes | Yes |
| getniccfg | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getpbinfo | No | No | No | No | No | No | Yes | Yes |
| getpminfo | No | No | No | No | No | No | Yes | Yes |
| getraclog | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getractime | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getredundancymode | No | No | No | No | No | No | Yes | Yes |
| getsel | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getsensorinfo | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getslotname | No | No | No | No | No | No | Yes | Yes |
| getssninfo | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getsvctag | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getsysinfo | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| gettracelog | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| getversion | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| "help" and "help <*subcommand*> | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| hwinventory | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| ifconfig | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| inlettemphistory | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| jobqueue | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| krbkeytabupload | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes |
| lclog | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| license | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| netstat | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| nicstatistics | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| ping | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ping6 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| racdump | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |

| Subcommand | iDRAC on Blade Servers | | | iDRAC on Rack and Tower Servers | | | CMC | |
|---|---|---|---|---|---|---|---|---|
| racreset | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| racresetcfg | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| raid | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| remoteimage | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| serveraction | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| set | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| setarraycfg | No | No | No | No | No | No | Yes | Yes |
| setassettag | No | No | No | No | No | No | Yes | Yes |
| setchassisname | No | No | No | No | No | No | Yes | Yes |
| setflexaddr | No | No | No | No | No | No | Yes | Yes |
| setled | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| setniccfg | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| setractime | No | No | No | No | No | No | Yes | Yes |
| setslotname | No | No | No | No | No | No | Yes | Yes |
| setsysinfo | No | No | No | No | No | No | Yes | Yes |
| sshpkauth | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| sslcertdownload | No | Yes | Yes | No | Yes | Yes | No | Yes |
| sslcertupload | No | Yes | Yes | No | Yes | Yes | No | Yes |
| sslcertview | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| sslcertdelete | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| sslcsrgen | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| sslkeyupload | No | Yes | Yes | No | Yes | Yes | No | No |
| sslresetcfg | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| systemconfig | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| testemail | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| testfeature | No | No | No | No | No | No | Yes | Yes |
| testtrap | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| testalert | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| traceroute | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| traceroute6 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| update | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| usercertupload | No | Yes | Yes | No | Yes | Yes | No | No |

| Subcommand | iDRAC on Blade Servers | | | iDRAC on Rack and Tower Servers | | | CMC | |
|---|---|---|---|---|---|---|---|---|
| usercertview | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| vflashsd | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| vflashpartition | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| vmdisconnect | Yes | Yes | Yes | Yes | Yes | Yes | No | No |

# Other Documents You May Need

In addition to this guide, you can access the following guides available on the Dell Support website at **support.dell.com/manuals**. On the **Manuals** page, click **Software → Systems Management** . Click on the appropriate product link on the right-side to access the documents.

- The *Integrated Dell Remote Access Controller 7 (iDRAC) Enterprise for Blade Servers User Guide* provides information about configuring and using an iDRAC for blade servers to remotely manage and monitor your system and its shared resources through a network.
- The *Integrated Dell Remote Access Controller 7 (iDRAC) User Guide* provides complete information about configuring and using an iDRAC for rack and tower servers to remotely manage and monitor your system and its shared resources through a network.
- The *Chassis Management Controller Online Help* provides information about using the CMC Web interface.
- The *Chassis System (CMC) Secure Digital (SD) Card Technical Specification* provides minimum BIOS and firmware version, installation and usage information.
- The *Dell OpenManage IT Assistant User's Guide* provides information about IT Assistant.
- Documentation specific to your third-party management console application.
- The *Dell OpenManage Server Administrator's User's Guide* provides information about installing and using Dell OpenManage Server Administrator.
- The *Dell Update Packages User's Guide* provides information about obtaining and using Dell Update Packages as part of your system update strategy.
- The *Glossary* provides information about the terms used in this document.

The following system documents are also available to provide more information about the system in which CMC is installed:

- The *Rack Installation Guide* and *Rack Installation Instructions* included with your rack solution describe how to install your system into a rack.
- The *Hardware Owner's Manual* provides information about system features and describes how to troubleshoot the system and install or replace system components.
- Documentation for any components you purchased separately provides information to configure and install these options.
- Release notes or readme files may be included to provide last-minute updates to the system or documentation or advanced technical reference material intended for experienced users or technicians.
- For more information on IOM network settings, see the *Dell PowerConnect M6220 Switch Important Information* document and the *Dell PowerConnect 6220 Series Port Aggregator White Paper*.

Updates are sometimes included with the system to describe changes to the system, software, and/or documentation. Always read the updates first because they often supersede information in other documents.

See the *Safety and Regulatory* information that is shipped with your system.

**NOTE:** Warranty information may be included within this document or as a separate document.

2

# RACADM Subcommand Details

This section provides detailed descriptions of the RACADM subcommands including the syntax and valid entries.

## Guidelines to Quote Strings Containing Special Characters When Using RACADM Commands

When using strings that contain special characters, use the following guidelines:

**Strings containing the following special characters must be quoted using single quotes or double quotes:**

- $ (dollar sign)
- " (double quote)
- ' (single quote)
- ` (back quote)
- \ (backslash)
- ~ (tilde)
- ; (semicolon)
- | (vertical bar)
- ( (left parentheses)
- ) (right parentheses)
- & (ampersand)
- > (greater than)
- < (less than)
- # (pound)
- ASCII code 32 (space)

**NOTE:** The - (dash) character cannot be the first character of the string, regardless of whether the string is quoted.

There are different escaping rules for single quoting versus double quoting.

**For double quoting:**

The following characters must be escaped by prepending a backslash:

- $ (dollar sign)
- " (double quote)
- ` (back quote)
- \ (backslash)

For example, use the following for a string that contains the special characters, $, ",',`and \

**For single quoting:**

- No character escaping is necessary.
- A single quote cannot be used even with a backslash escaped.

**NOTE:** An empty string may be specified as either "" (using double quotes) or '' (using single quotes).

# "?"and "?<subcommand>"

| | |
|---|---|
| **Description** | Displays all the subcommands you can use with the RACADM command and a one-line description of each subcommand.<br>? followed by <*subcommand*> displays the syntax for the specified command.<br>To use this subcommand, you must have **CMC Login User** privilege.<br>You can also use the **help** and **help <*subcommand*>** commands to obtain the same information.<br>This subcommand is applicable only for CMC. |
| **Synopsis** | `racadm ?`<br>`racadm ? <subcommand>` |
| **Input** | NA |
| **Output** | NA |

### Example for RACADM ?

The following output example shows only part of the actual output for the racadm ? command. Descriptions shown in this example may vary slightly from the descriptions in your racadm session.

```
racadm ?

help            -- list racadm subcommand description
help <subcommand> -- display usage summary for a subcommand
?               -- list racadm subcommand description
? <subcommand>  -- display usage summary for a subcommand
arp             -- display the networking arp table
chassisaction   -- execute chassis or switch power-up/down/cycle or
KVM powercycle
clrraclog       -- clear the CMC log
clrsel          -- clear the System Event Log (SEL)
cmcchangeover   -- Changes the redundant state of the CMC from active
to standby and vice versa
config          -- modify CMC configuration properties
...
setniccfg       -- modify network configuration properties
setractime      -- set the time on the CMC
setslotname     -- sets the name of the slot in the chassis
setsysinfo      -- set the chassis name and chassis location
sslcertview     -- display a CA/server certificate in the CMC
sslcsrgen       -- generate a certificate CSR from the CMC
testemail       -- test CMC e-mail notifications
testfeature     -- test CMC feature x
testtrap        -- test CMC SNMP trap notifications
traceroute      -- determine the route of a packet
traceroute6     -- determine the route of a packet
```

### Example for RACADM ? <*subcommand*>

```
racadm ? getsysinfo

getsysinfo -- display general CMC and system information
Usage:
racadm getsysinfo [-d] [-c] [-A] [-4] [-6]
------------------------------------------------------------
Valid Options:
-d : show CMC information
```

```
-c : show chassis information
-A : do not show headers or labels
-4 : show CMC IPv4 information
-6 : show CMC IPv6 information
```

# help and help <subcommand>

**Description** Lists all the subcommands available for use with **RACADM** and provides a short description for each. You may also type a subcommand, group, object, or FQDD alias after help.

**Synopsis**

- `racadm help`
- `racadm help <subcommand>`
- `racadm help -g <groupname>`
- `racadm help -o <objectname>`
- `racadm help <FQDD Alias>.<Group>`
- `racadm help <FQDD Alias>.<Object>`
- `racadm help <FQDD Alias>.<Group>.<Object>`

**Input** None

**Output**

- The **help** command displays a complete list of subcommands.
- The racadm **help <*subcommand*>** command displays information for the specified subcommand only.
- The racadm **help -g <*groupname*>** command displays information for the specified group.
- The racadm **help -o <*objectname*>** command displays information for the specified object.
- The racadm **help <*FQDD Alias*>.<*Group*>**command displays information for the specified group.
- The racadm **help <*FQDD Alias*>.<*Object*>** command displays information for the specified object.
- The racadm **help <*FQDD Alias*>.<*Group*>.<*Object*>** command displays information for the specified object.

**Example**

```
racadm help idrac.lcd

racadm help system.power

racadm help system.power.supply
```

# arp

**Description** Displays the contents of the Address Resolution Protocol (ARP) table. ARP table entries cannot be added or deleted.

To use this subcommand for CMC, you must have **Administrator privilege** and for iDRAC, you must have **Execute Diagnostic Commands** .

**Synopsis**

```
racadm arp
```

**Input** None

**Example** None

**Output**

| IP Address | HW Type | Flags | HW Address | Mask | Device |
|---|---|---|---|---|---|
| 192.168.1.1 | 0x1 | 0x2 | 00:00:0C:07:AC:0F | * | eth0 |

# autocomplete

**Description**

Displays all the available racadm commands in the alphabetical order on pressing the <Tab> key. Type the starting letter of the command and press <Tab> key to complete the command

**Synopsis**

```
racadm> <press tab>
```

**Input**

```
racadm> <press tab>
```

**Output**

The Input command displays the list of subcommands.

**Example**

- Example 1: `[root@idrac-<username>]racadm> <press tab>`

  ```
  arp
  clearasrscreen
  closessn
  clrraclog
  clrsel
  config
  connect
  coredump
  coredumpdelete
  debug
  eventfilters
  ```

- Example 2: `[root@idrac-<username>]racadm> get <press tab>`

  ```
  get
  getconfig
  getled
  getniccfg
  getraclog
  getractime
  getsel
  getsensorinfo
  getssninfo
  getsvctag
  getsysinfo
  gettracelog
  getuscversion
  getversion
  ```

- Example 3:

  ```
  [root@idrac-<username>]racadm>
  getv <press tab>
  ```

# cd

**Description**

Use this command to change the current working object.

**Synopsis**

```
racadm> cd <object>
```

**Input**

```
racadm> cd <object>
```

**Output**

Use the command to execute object related `get` or `set`commands.

**Example**

- Example 1: To execute all system related `get` or `set`commands:
  - Input: `[root@idrac-<username>]racadm> cd system`
  - Output:
    ```
    [root@idrac-<username>]system>
    ```
- Example 2: To execute all power related `get` or `set`commands:
  - Input: `[root@idrac-<username>]system> cd power`
  - Output:
    ```
    [root@idrac-<username>]power>
    ```

## cd..

**Description**

Use this command to traverse back to the previous object.

**Synopsis**

```
racadm> cd..
```

**Input**

```
racadm> cd..
```

**Output**

Use the command to traverse back to the previous object.

**Example**

- Example 1: To traverse back from power to system object:
  - Input: `[root@idrac-<username>]power> cd..`
  - Output:
    ```
    [root@idrac-<username>]system>
    ```
- Example 2: To traverse back from system object to the prompt:
  - Input: `[root@idrac-<username>]system> cd..`
  - Output:
    ```
    [root@idrac-<username>]racadm>
    ```

## chassisaction

**Description**

Executes a power action on the chassis, iKVM, or a server.

To use this subcommand, you must have **Chassis Control Administrator** privilege

**Synopsis**

```
racadm chassisaction [-m <module>]
<action>
```

**Input**

- -m <*module*> — Module on which you want to carry out the action. Values are:

— chassis - this is the default value if **-m** is not specified.

— **switch-n** where n=1–6

— **kvm**

- <*action*> — Action that you want to execute on the specified module. Values are:

— powerdown — (Chassis only) Powers down the chassis.

— powerup — (Chassis only) Powers up the chassis.

— powercycle — Power cycles the module.

— nongraceshutdown — (Chassis only) Shuts down the chassis non-gracefully.

— reset — Performs a hard reset of the module.

When <*module*> = kvm or switch, <*action*> must be powercycle or reset.

**Output**

None

**Example**

Perform a reset of switch-3:

```
racadm chassisaction -m switch-3 reset

Module power operation successful.
```

# clearasrscreen

**Description**

Clears the last crash (ASR) screen that is in memory.

For more information, see "*Enabling Last Crash Screen*" section in the *iDRAC7 User's Guide*.

This subcommand is only applicable for iDRAC.

**NOTE:** To use this subcommand, you must have **Clear Logs** permission.

**Synopsis**

```
racadm clearasrscreen
```

**Input**

None

**Output**

Clears the last crash screen buffer.

**Example**

```
racadm clearasrscreen
```

# closessn

**Description**

Closes a communication session on the device. Use **getssninfo** to view a list of sessions that can be closed using this command.

To use this subcommand, you must have **Administrator** permission.

**Synopsis**

- `racadm closessn –i <session id>`
- `racadm closessn -a`
- `racadm closessn -u <username>`

**Input**

- **-i**<*session id*> — The session ID of the session to close, which can be retrieved using racadm **getssninfo** subcommand.

  Session executing this command cannot be closed.
- **-a** — Closes all sessions.
- **-u** *<user name>*— Close all sessions for a particular user name.

  **-u** option can be used in local RACADM only if the username contains upto 16 characters. If the user name contains more than 16 characters, use one of the following options to close a session:

— Local RACADM: **-i** option

— Remote RACADM: **-u** option or **-i** option

**Output**

None

**Example**

- `racadm closessn –i 1234`

  Closes the session 1234.
- `racadm closessn –u root`

  Closes all the sessions for root user.
- `racadm closessn –a`

  Closes all the sessions.

# clrsel

**Description**

Removes all existing records from the System Event Log (SEL).

To use this subcommand, you must have **Clear Logs** permission.

**Synopsis**

`racadm clrsel`

# cmcchangeover

**Description**

Changes the state of the CMC from active to standby, or vice versa, in a redundant CMC configuration. This subcommand is useful for remote debugging or testing purposes.

To use this subcommand, you must have **Administrator** privilege.

**NOTE:** This command is valid only in redundant CMC environments. For more information, see the "Understanding the Redundant CMC Environment" section of the *Dell Chassis System User Guide*.

**Synopsis**

```
racadm cmcchangeover
```

**Input**

None

**Output**

```
CMC failover initiated successfully.
```

**Example**

```
racadm cmcchangeover
```

# config

**Description**

Allows you to set iDRAC configuration parameters individually or to batch them as part of a configuration file and modify CMC configuration properties. If the data is different, that iDRAC object is written with the new value.

**Synopsis**

```
racadm config [-c|-p] -f <filename> [--continue]
```

```
racadm config -g <groupName> -o <objectName> [-i
<index>] <Value>
```

**NOTE:** The configuration file retrieved using remote racadm and local racadm are not interoperable. For the config `-f` <*file name* >command, use the configuration file retrieved from the same interface. For example, for local racadm config `-f` <*file name*>, use the file generated from the local racadm command `getconfig -f` <*file name*>.

For CMC only:

```
racadm config -g <group> -o <object> <value> [-m <module>]
```

**Input**

**NOTE:** The **-f** and **-p** options are not supported for the serial/Telnet/ssh console.

- **-f** — The **-f** <*file name*> option causes config to read the contents of the file specified by <*file name*> and configure iDRAC. The file must contain data in the format specified in the section Parsing Rules in the *iDRAC User's Guide* available at **dell.com/support/manuals**.
- **--continue** — This option is used with **–f** option only. If configuration through file fails for a group, then configuration continues with the next group in the file. If this option is not used, then configuration stops when it fails for a particular group. After the failed group, the rest of the groups are not configured.
- **-p**— This option must be used with the **-f** option. It directs **config** to delete the password entries contained in the config file **-f** <*file name*> after the configuration is complete.

  To apply the password you must remove the preceding Read-Only marker '#' in the config file before executing the config **-f** command.
- **-g**— The **-g** <*groupName*>, or **group** option, must be used with the **-o** option. The <*groupName*> specifies the group containing the object that is to be set.
- **-o** — The **-o** <*objectName*> <*Value*>, or **object** option, must be used with the **-g** option. This option specifies the object name that is written with the string <*value*>.
- **-i** — The **-i** <*index*>, or **index** option, is valid only for indexed groups and can be used to specify a unique group. The <*index*> is a decimal integer from 1 through n, where n can vary from 1 to maximum number of indexes a particular group supports. If **-i** <*index*> is not specified, a value of 1 is assumed for groups, which are tables that have multiple entries. The index is specified by the index value, not a named value.

- **-c** — The **-c,** or **check** option, is used with the **config** subcommand and allows the user to parse the .**cfg** file to locate syntax errors. If errors are found, the line number and a short description of what is incorrect are displayed. Write permission does not apply to iDRAC. This option is a check only.
- For CMC only:
  **-m** — Module must be one of the following values:
  - **server-n** — where n = 1 to 16
  - **server-nx**— where n = 1 to 8; x = a to d (lower case)

  **NOTE:** Only available for cfgRemoteHosts, cfgRacTuning, cfgSerial, cfgSessionManagement, cfgLanNetworking, or cfgIPv6LanNetworking.

**Output**

This subcommand generates error output for any of the following reasons:

- Invalid syntax, group name, object name, index, or other invalid database members.
- RACADM CLI failures.

**Examples**

- racadm config -g cfgLanNetworking -o cfgNicIpAddress 10.35.10.100
  Sets the **cfgNicIpAddress** configuration parameter (object) to the value 10.35.10.110. This IP address object is contained in the group **cfgLanNetworking**.
- racadm config -f myrac.cfg
  Configures or reconfigures iDRAC. The **myrac.cfg** file may be created from the **getconfig** command. This file may also be edited manually as long as the parsing rules are followed.

**NOTE:** The **myrac.cfg** file does not contain passwords. To include passwords in the file, you must enter them manually. If you want to remove password information from the **myrac.cfg** file during configuration, use the **-p** option.

For CMC only:

- Configure a single property of a group:
  ```
  racadm config -g cfgSerial -o cfgSerialBaudRate
  ```
- Modify a user password:
  ```
  racadm config -g cfgUserAdmin -o cfgUserAdminPassword -i 3
  newpassword
  ```
- Configure a single property of a group for a particular server:
  ```
  racadm config -g cfgSessionManagement -o
  cfgSsnMgtWebServerTimeout newvalue -m server-n
  ```
- Configure the remote Syslog property for a particular server:
  ```
  racadm config -g cfgRemoteHosts -o cfgRhostsSyslogEnable 1 -
  m server-n
  ```
- Configure the remote Syslog property for all servers:
  ```
  racadm config -g cfgRemoteHosts -o cfgRhostsSyslogEnable 1 -
  m server-all
  ```

# connect

**Description**

Connects to the switch or server serial console.

**Synopsis**

- `racadm connect [-b] <server-n>`
- `racadm connect [-b] <switch-n>`

**Input**

**-b —** Connects to the switch or console using the binary mode. This is an optional argument; a server or a switch must be present.

**NOTE:** If you use the **-b** option, reset the CMC to terminate the connect operation.

- **server**-nx —
  where *n*=1-8 ; *x* = a,b,c,d
- **switch**-n — switch-n where n=*<a1 | a2 | b1 | b2 | c1 | c2>*

# coredump

**Description**

Displays detailed information related to any recent critical issues that have occurred with iDRAC. The coredump information can be used to diagnose these critical issues.

If available, the coredump information is persistent across iDRAC power cycles and remains available until either of the following conditions occur:

- The coredump information is cleared with the **coredumpdelete** subcommand.
- Another critical condition occurs on iDRAC. In this case, the coredump information is relative to the last critical error that occurred.

This option is applicable only for iDRAC.

To use this subcommand, you must have **Execute Debug Commands** permission

See the **coredumpdelete** subcommand for more information about clearing the coredump.

**Synopsis**

```
racadm coredump
```

**Input**

None

**Output**

None

**Example**

- `racadm coredump`
  No Core Dump Data is currently available.
- `racadm coredump`
  Feb 19 15:51:40 (none) last message repeated 5 times

  Feb 19 15:52:41 (none) last message repeated 4 times

  Feb 19 15:54:12 (none) last message repeated 4 times

  Feb 19 15:56:11 (none) last message repeated 2 times

  Feb 22 11:46:11 (none) kernel:

# coredumpdelete

**Description**

Clears any currently resident coredump data stored in the RAC.

This option is applicable only for iDRAC.

To use this subcommand, you must have **Clear Logs** or **Execute Debug Commands** permission.

**NOTE:** If a **coredumpdelete** command is issued and a coredump is not currently stored in the RAC, the command displays a success message. This behavior is expected. See the **coredump** subcommand for more information on viewing a coredump.

**Synopsis**

```
racadm coredumpdelete
```

**Input**

None

**Output**

Coredump is deleted.

**Example**

```
racadm coredumpdelete

Coredump request completed successfully
```

# deploy

**Description**

Configures the static IP address, subnet mask, gateway, and password for the root user on iDRAC for the specified server or switch.

To use this subcommand, you must have **Server Administrator** privilege.

**NOTE:** You can also use **setniccfg** to configure static IP address, subnet mask, and gateway, as well as DHCP, speed, and duplex properties.

**Synopsis**

- `racadm deploy -m server -<n> -u root -p <password> -s <ipaddress> <subnet> <gateway> -b <device> -o <no|yes>`
- `racadm deploy -m server -<n> -u root -p <password> -s -6 <ipv6Address> <prefixlen> <gateway> -b <device> -o <no|yes>`

  where <*prefixlen*> must be a number between 0 and 128.
- `racadm deploy -m server -<n> -u root -p <password> -d [-6]`
- `racadm deploy -m switch -<n> -u root -p <password>`
- `racadm deploy -m switch -<n> -u root -p <password> -v SNMPv2 <snmpCommunityString> ro`
- `racadm deploy -a [server/switch] -u root -p <password>`

**Input**

- **-b** <*device*> — Specifies the first boot device; must be used with `-o`. Use with -m <*module*> to specify for an individual server, or with -a for all servers.

  Legal values: device=None, PXE, HDD, CD-DVD, vFDD, vCD-DVD, iSCSI, SD, FDD, RFS
- **-o** <*no|yes*> — Indicates if the server should boot from the device once. Use with `-b`.

  Use with `-m` <*module*> to specify for an individual server, or with `-a` for all servers.
- **-a** — [server/switch]. Applies options to all modules present in the chassis of the given module type. Specify the value as server or switch. Default value is server. Switches must support Ethernet Management.

- **-u root** — Indicates that the <*password*> is supplied for the root user on the server or switch. Root is a constant parameter, the only value that is valid with the `-u` option.
- **-m** <*module*> — Specifies the server or switch you want to configure.

  Legal values:

  - sever-n, where *n*=1–16
  - server-nx where *n*=1– 8; *x* = a,b,c,d
  - switch-n, where *n*=1– 6
- **-p** <*password*> — Specifies the password for the root user on the server or switch. For switches, valid passwords are 6-32 ASCII characters in length, ranging in value between 32 – 125 (decimal). For servers, valid passwords are 1 – 20 ASCII characters in length, ranging in value between 32 – 126 (decimal).
- **-s** <*ipaddress subnet gateway*> — Sets the IP address, subnet mask, and gateway for the specified server, separated by single spaces.

  - ipaddress — A string representing a valid IP address. For example, 192.168.0.20.
  - subnet — A string representing a valid subnet mask. For example, 255.255.255.0.
  - gateway — A string representing a valid gateway address. For example, 192.168.0.1.
- **-d** — Enables DHCP for the specified server.

  The **-s** and **-d** options cannot be used together in the same command.
- **-6** — Enables IPv6 auto configuration (when used with -d.) Sets static IPv6 addresses (when used with -s)
- **-v SNMPv2** <*snmpCommunityString*> **ro** — Specifies the SNMP community string for switches. Valid community strings are 1-20 characters in length, with valid ASCII characters in the range [32–125] (decimal). Protocol version set to SNMPv2. Permission on community string is read-only.

**Output** None

**Example**

- racadm deploy -m server-8 -s 192.168.0.20 255.255.255.0 192.168.0.1

  The server was deployed successfully.
- racadm deploy -m server-9 -s 192.168.0.11 255.255.255.0 192.168.0.1

  ERROR: Server in slot 9 is an extension of the server in slot 1.

  The deploy command generates an error when used on the extension slot of a multi-slot server.
- racadm deploy -m server-1 -u root -p calvin -s -6 2001:DB8::2 64 2001:DB8::1 -b HDD -o yes
- Set root password, configure static IPV6 address, set first boot device to HDD, and enable boot once for server-1
- Set root password, configure static IPV6 address, set first boot device to HDD, and enable boot once for server-1

```
racadm deploy –m server-1 -u root -p <password>-s
-6 2001:DB8::2 64 2001:DB8::1 -b HDD -o yes
```

# eventfilters

**Description** Gets, sets, test the alerts for message ID, and displays the list of event filter settings.

To use this subcommand with the **get** and **test** option, you must have **Administrator** privilege.

This subcommand is applicable only for iDRAC.

**Synopsis**

```
racadm eventfilters <eventfilters command type>

racadm eventfilters get -c <alert descriptor>

racadm eventfilters set -c <alert descriptor>-a <action>-n
<notifications>

racadm eventfilters set -c <alert descriptor>-a <action>-r
<recurrence>

racadm eventfilters test -i <Message ID to test>
```

**NOTE:** The general format of an alert descriptor:

```
idrac.alert.category.[subcategory].[severity]
```

, where, category is mandatory, but subcategory and severity are optional. A severity cannot precede a subcategory.

Valid Category values are:

- All
- System
- Storage
- Updates
- Audit
- Config
- Worknotes

Valid Severity values are:

- Critical
- Warning
- Info

Valid examples of alert descriptors are:

- idrac.alert.all
- idrac.alert.audit
- idrac.alert.audit.lic
- idrac.alert.audit.warning
- idrac.alert.audit.lic.critical

**Input**

- **get** — Displays the list of eventfilter settings.
- **set** — Configures the actions and notifications for a given eventfilter configuration.
- **-i** — Message ID for which the simulation is needed.
- **-c** — Alert descriptor of the specific event filter.
- **-a** — The action that must be invoked when the event occurs. Valid values are none, powercycle, poweroff, or systemreset.
- **-n** — The notification to be sent when the event occurs. Valid values are all, snmp, ipmi, lcd, email, or none. You can append multiple notifications separated by a comma. You cannot enter the values **all** or **none** with other notifications.

- **-r** — Event generation interval. This is applicable only to the temperature statistics subcategory **- tmps**. You can use this option as a stand-alone or with **-n** and **-a**.

**NOTE:** If both **event generation interval** and **notifications** are configured and there is an error while configuring the notifications, the event generation interval is not set. The valid values are from 0 - 365. 0 disables the event generation.

**Example**

- Display all available event filter configurations:

  ```
  racadm eventfilters get -c idrac.alert.all
  ```

- Display eventfilter configurations for a specific category. For example, audit:

  ```
  racadm eventfilters get -c idrac.alert.audit
  ```

- Display eventfilter configurations for a specific subcategory. For example, licensing under the audit category:

  ```
  racadm eventfilters get -c idrac.alert.audit.lic
  ```

- Display eventfilter configurations for a specific severity. For example, warning under the audit category:

  ```
  racadm eventfilters get -c idrac.alert.audit.warning
  ```

- Display eventfilter configurations for a specific severity and subcategory. For example, a severity of warning in the subcategory licensing under audit category:

  ```
  racadm eventfilters get -c
  idrac.alert.audit.lic.warning
  ```

- Clear all available alert settings:

  ```
  racadm eventfilters set -c idrac.alert.all -a none -n
  none
  ```

- Configure using severity as a parameter. For example, all informational events in storage category are assigned poweroff as action, and email and snmp as notifications:

  ```
  racadm eventfilters set -c idrac.alert.storage.info -
  a poweroff -n email,snmp
  ```

- Configure using subcategory as a parameter. For example, all configurations under the licensing subcategory in the audit category are assigned poweroff as action and all notifications are enabled:

  ```
  racadm eventfilters set -c idrac.alert.audit.lic -a
  poweroff -n all
  ```

- Configure using subcategory and severity as parameters. For example, all information events under the licensing subcategory in the audit category are assigned poweroff as action and all notifications are disabled:

  ```
  racadm eventfilters set -c idrac.alert.audit.lic.info
  -a poweroff -n none
  ```

- Configure the event generation interval for temperature statistics:

  ```
  racadm eventfilters set -c
  idrac.alert.system.tmps.warning -r 10
  ```

- Configure the event generation interval and notifications for temperature statistics:

  ```
  racadm eventfilters set -c idrac.alert.system.tmps -r
  5 -a none -n snmp
  ```

- Send a test alert for the fan event:

  ```
  racadm eventfilters test -i FAN0001
  ```

# feature

**Description**

Displays all active chassis features. The information displayed includes feature name, date activated, and the serial number of the SD card used to activate the feature.

Dell Feature Cards may contain more than one feature. After any feature included on a Dell Feature Card is activated on a chassis, any other features that may be included on that Dell Feature Card cannot be activated on a different chassis.

**NOTE:** To use this subcommand to deactivate FlexAddress, you must have **Chassis Configuration Administrator** privilege. A user with login privileges can view status only.

**NOTE:** To deactivate FlexAddress features, the chassis must be powered off.

**Synopsis**

- `racadm feature -s`
- `racadm feature -d -c <featurename>`
- `racadm feature -a -c ExtendedStorage`
- `racadm feature -1 -c ExtendedStorage`
- `racadm feature -2 -c ExtendedStorage`
- `racadm feature -r -c ExtendedStorage`

**Input**

- `-s — Displays the status of active features.`
- `-d — Deactivates feature specified in -c option.`

**NOTE:** When the FlexAddress and FlexAddressPlus feature are active, deactivating one of them results in deactivation of the other feature also.

- `-a — Activates ExtendedStorage feature.`
- `-1 — Configures ExtendedStorage feature for standalone use.`
- `-2 — Configures ExtendedStorage feature for redundant use.`
- `-r — Reformats damaged/unformatted ExtendedStorage media.`
-

**CAUTION: Using the -r switch deactivates the ExtendedStorage feature, if active; reformats the SD media in the active CMC cardslot; and may reboot the active CMC.**

- `-c — <featurename> must be one of the following:`
- `flexaddress (with -d)`
- `flexaddressplus (with -d) ExtendedStorage (with -a,-d,-1,-2, or -r)`

# featurecard

**Description**

Verifies proper SD card installation and displays the SD card status.

To use this subcommand, you must have **Chassis Configuration Administrator** privilege.

**Synopsis**

`racadm featurecard -s`

**Input**

**-s** — Lists active SD card features and SD card status.

**Output**

- `No feature card inserted` — **Action**: Check the CMC to verify that the SD card was properly inserted. In a redundant CMC configuration, make sure the CMC with the SD feature card installed is the active CMC and not the standby CMC.
- `The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is bound to this chassis` — **Action**: No action required.
- `No features active on the chassis` — **Action**: Install the SD card into the CMC.
- `The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is bound to another chassis, svctag = ABC1234, SD card SN = 01122334455`

  **Action**: Remove the SD card; locate and install the SD card for the current chassis.
- `The feature card inserted is valid and contains the following feature(s) FlexAddress: The feature card is not bound to any chassis`

  **Action**: The feature card can be moved to another chassis, or can be reactivated on the current chassis. To reactivate on the current chassis, enter *racadm racreset* until the CMC module with the feature card installed becomes active.

**Example**

```
$ racadm featurecard -s

The feature card inserted is valid,
serial number TEST0123456789012345678

The feature card contains the
following feature(s):
```

FlexAddress: The feature is bound to this chassis

FlexAddressPlus: The feature is bound to this chassis

ExtendedStorage: The feature is bound to this chassis

# fwupdate

**Description**

Allows you to update the firmware on the iKVM, active CMC, standby CMC, server iDRACs, or an IOM infrastructure device. You can:

- Check the firmware update process status.
- Update iDRAC or CMC firmware from a FTP or a TFTP server by providing an IP address and optional path.
- Update iDRAC or CMC firmware from the local file system using Local and Remote RACADM.
- Rollback to the standby firmware.
- This subcommand performs updates to the iDRAC firmware (if CMC firmware version is 2.0 or later and iDRAC firmware version is 1.4) when the existing firmware is corrupted. There can only be a single update operation in progress

at any time. In addition, the **fwupdate** subcommand may only update one or more devices of a single kind at a time.

To use this subcommand for CMC you must have **Chassis Configuration Administrator** privilege and for iDRAC you must have **Configure iDRAC** permission.

**NOTE:** Running the **fwupdate** subcommand to update the firmware on the active CMC resets itself causing all network connections to be dropped. During update of all other modules, including the standby CMC, the active CMC continues to run normally without resetting.

**NOTE:** The **fwupdate** subcommand generates an error when used on the extension slot of a multi-slot server.

**Synopsis**

**For iDRAC:**

```
racadm fwupdate -s

racadm fwupdate -g -u -a <TFTP_Server_IP_Address>
[-d <path> [--clearcfg]

racadm -r <iDRAC7 IP_Address> -u <username> -p <password>
fwupdate -f <ftpserver ip> <ftpserver username>
<ftpserver password> -d <path> where path is the location
on the ftp server where firming.d7 is stored.

racadm fwupdate -r

racadm fwupdate -p -u [-d <path>]
```

**For CMC**:

For local RACADM:

```
racadm fwupdate -g -u -a <tftp server ip address or
FQDN> -d <path> [-m <module>]

racadm fwupdate -f <ftp server ip address or FQDN>
<username> <password> -d <path> [-m
<module>]


racadm fwupdate -u -m iominf-<n>

racadm fwupdate -s [-m <module>]

racadm fwupdate -c [-m <module>]
```

For Remote RACADM:

```
racadm fwupdate -p -u -d <firmware image>
```

**NOTE:** iDRAC7 targets are not supported from CMC. Use the CMC GUI to update iDRAC7 targets from CMC.

When using FTP, if you provide the full path to the image file on the CLI, then the CMC uses that path to locate that file on the host. If you do not provide a full path, then the CMC searches the home directory of the specified user for the file if the host system is running Linux or another variant of UNIX. If the host system is running Windows, then a default folder, such as **C:\ftproot** is searched.

**NOTE:** When attempting to run firmware update task using **racadm fwupdate** command, if the firmware image path length is greater than 64 characters. Remote RACADM client exits with the error message "ERROR: Specified path is too long".

**Input**

- **-u** — For iDRAC: The update option performs a checksum of the firmware update file and starts the actual update process. This option may be used along with the -g or -p options. At the end of the update, iDRAC performs a soft reset.

  For CMC: Performs the firmware update operation.
- **-s**— For iDRAC: The status option returns the current status of where you are in the update process. This option is always used by itself. Lists active SD card features and SD card status.

  For CMC: Displays the current status of the firmware update.

**NOTE:** Use -m to display the status of the module update. Omit -m to display the status of the active CMC update.

**NOTE:** The value **all** can only be used to obtain the status of all targets to be updated.

- **-g** — For iDRAC:The get option instructs the firmware to get the firmware update file from the TFTP server. You must also specify the **-a**, **-u**, and **-d** options. In the absence of the **-a** option, the defaults are read from properties contained in the group **cfgRemoteHosts**, using properties **cfgRhostsFwUpdateIpAddr** and **cfgRhostsFwUpdatePath**.

  For CMC: Downloads the firmware update using the TFTP server.
- **-a** — The IP Address option specifies the TFTP server IP address, used with -g option.

  For CMC: Specifies the TFTP server IP address or FQDN used for the firmware image (used with -g).
- **-d** — For iDRAC: The **-d**, or directory, option specifies the directory on the TFTP server or on iDRAC's host server where the firmware update file resides.

  For CMC: Specifies the source path where the firmware image resides.

  Default: Designated TFTP default directory on that host for the file if **-g** option is absent. If **-g** is used, it defaults to a directory configured on the TFTP server.
- **-p** — For iDRAC: The -p, or put, option is used to update the firmware file from the managed system to iDRAC. The**-u** option must be used with the **-p** option.

**NOTE:** This option is not applicable for CMC. The **-p** option is supported on local and remote RACADM and is not supported with the serial/Telnet/ssh console and on Linux operating systems.

- **-r** — The rollback option is used to rollback to the standby firmware.

  This option is not applicable for CMC.
- **-c** — Cancels the current firmware update of a module.

  This option is applicable only for CMC.
- **-m** <*module*>—

  Specifies the module or device to be updated. <*module*> is one of the following values:

  — cmc-active (default)

  — cmc-standby

  — kvm

  — server-nx where *n*=1-8 ; *x* = a,b,c,d

  — server-generation where generation = iDRAC or iDRAC6 only.

  — iominf-n where n = 1–6
- **--clearcfg** (Optional) — After the firmware update, this option removes the previous iDRAC configuration.

**NOTE:** iDRAC7 targets are not supported from CMC. Use the CMC GUI to update iDRAC7 targets from CMC.

CMC version 3.00 accepts IPv4, IPv6, or fully qualified domain names (FQDN) for both FTP and TFTP servers.

**NOTE:** You can specify the **cmc-active** and **cmc-standby** modules at the same time along with one or more server-n modules. This enables the devices to be updated together. This option is applicable only for CMC.

When you use the **server-generation** option, the CMC updates all iDRACs of that particular generation that can be updated.

**NOTE:** Verify that the update applied to servers for a particular generation has been validated for all impacted server models.

**Output**

Displays a message indicating the operation that is being performed.

**Example**

- Upload the firmware image from the TFTP server and start the firmware update
  ```
  racadm fwupdate -g -u -a 192.168.0.100 -d
  firmimg.cmc -m cmc-active TFTP firmwareate has been
  initiated. This update process may take several
  minutes to complete.
  .
  ```
- Upload the firmware image from the FTP server and start the firmware update.
  ```
  racadm fwupdate -f 192.168.0.100 fred password123 -d
  firmimg.cmc -m cmc-active
  ```
- Start IOM infrastructure firmware update.
  ```
  racadm fwupdate -u -m iominf-1
  ```
- Update firmware on both the CMCs.
  ```
  racadm fwupdate -g -u -a 192.168.0.100 -d
  firmimg.cmc -m cmc-active -m cmc-standby
  ```
- Update firmware on multiple servers.
  ```
  racadm fwupdate -g -u -a 192.168.0.100 -d
  firmimg.imc -m server-1 -m server-2 -m server-3
  ```
- Update firmware on servers of iDRAC generation.
  ```
  racadm fwupdate -g -u -a 192.168.0.100 -d
  firmimg.imc -m server-iDRAC
  ```
- Update firmware on multiple IOM infrastructure devices.
  ```
  racadm fwupdate -u -m iominf-4 -m iominf-5 -m
  iominf-6
  ```
- Query the current status of all firmware targets to be updated.
  ```
  racadm fwupdate -s -m all
  ```
- Download firmware update file from a specified location on the TFTP server at a specific IP address.
  ```
  racadm fwupdate -g -u -a 143.166.154.143 -d <path>
  ```
  After the image file is downloaded from the TFTP server, the update process begins. When completed, iDRAC is reset.
- Read the current status of the firmware update.
  ```
  racadm fwupdate -s
  ```

**NOTE:** Firmware update from local racadm (using **-p -u -d** options) is not supported on linux OS.

**NOTE:** For CMC, these commands specifically apply to an active-CMC update.

The following table describes the firmware update method supported for each interface.

| FW Update Method | iDRAC on Blade Servers | iDRAC on Rack and Tower Servers | CMC |
|---|---|---|---|
| Local RACADM | Yes | Yes | No |
| Local RACADM - TFTP | Yes | Yes | No |
| Local RACADM - FTP | Yes | Yes | No |
| Remote RACADM | Yes | Yes | Yes |
| Remote RACADM-TFTP | Yes | Yes | Yes |
| Remote RACADM-FTP | Yes | Yes | Yes |
| Firmware RACADM-TFTP | Yes | Yes | Yes |
| Firmware RACADM-FTP | Yes | Yes | Yes |

# get

**Description**

You can read the value of configuration objects on the iDRAC and display RAC object values. The displayed values are currently used by the device. If the values are pending, then commit and reboot job should be created using the **jobqueue** command. For more information, see jobqueue.

This subcommand is applicable for iDRAC only.

**Synopsis**

- `racadm get -f <filename>`
- `racadm get <FQDD Alias>.<index>.<group>.<index>.<object>`
- `racadm get <FQDD Alias>.<group>`
- `racadm get <FQDD Alias>.<group>.<object>`
- `racadm get <FQDD Alias>.<group>.<index>.<object>`
- `racadm get -f <filename> -t <filetype> -u <username> -p <password> -l <CIFS share>`

**Input**

- `<FQDD Alias>`-
  - Examples for FQDDs
    - System.Power
    - System.Power.Supply
    - System.Location
    - LifecycleController.LCAttributes
    - System.LCD
    - iDRAC.Serial

For the list of supported groups and objects under the get command, see Database Objects With Get and Set Commands

- `<group>` — Specifies the group containing the object that is to be read.

- `<object>` — Specifies the object name of the value to be read.
- `<index>` — Specifies where FQDD Alias's or Groups need to be indexed.
- `-f <filename>` — This option enables you to save the RAC configuration to a file.

  Enables the subcommand to write the device configuration to a file specified by <*filename*>. This option is not supported in Firmware racadm interface.

  For Indexed groups, if a group is not configured then it will not be saved to the configuration file.
- `-u` — User name of the remote share from where the file must be exported.
- `-p` — Password for the remote share from where the file must be exported.
- `-l` — Network share location from where the file must be exported.
- `-t` — Specifies the file type to be exported. Valid values are "xml" and "ini". These are not case-sensitive. ini exports the legacy configuration file. The ini file cannot be exported to a remote share. If `-t` is not specified, then the ini file is exported.

**Examples**

- Get system LCD information:

  ```
  racadm get system.lcd
  LCDUserString=test
  ```
- Display an entire group, in this case the topology configuration:

  ```
  racadm get system.location
  ```
- Display a single object from a particular group:

  ```
  racadm get system.location.rack.name
  ```
- Display an indexed group:

  ```
  racadm get system.power.supply.1
  ```
- Export the xml configuration to a CIFS share:

  ```
  racadm get -f file -t xml -u myuser -p mypass -l //
  10.1.12.13/share
  ```
- Export the xml configuration to an NFS share:

  ```
  racadm get -f file -t xml -l 10.1.12.13:/myshare
  ```

# getarraycfg

**Description**

This command is applicable only for CMC. Use this command to display the storage array properties and configuration status.

**Synopsis**

```
getarraycfg -m <module> [-s]
```

**Input**

- **-m** — The valid value for `–m <module>` is server-n, where n = 1 to 16.
- **-s** — query for current storage configuration process status.

**Output**

Array configured properties for:

- Member Name
- Member IP
- Group Name
- Group IP
- Fabric Selection

*<module>* configuration completed successfully.

**Example**

- Get the configured storage array properties from server-3
  `racadm getarraycfg -m server-3`
- Query for current storage configuration process status on server-3
  `racadm getarraycfg -m server-3 -s`

# getassettag

**Description**

Displays the asset tag for the chassis.

To use this subcommand, you must have **CMC Login User** privilege.

**Synopsis**

`racadm getassettag [-m <module>]`

**Input**

**-m** *<module>* — Specifies the module whose asset tag you want to view.

`Legal value: chassis`

**Example**

- `racadm getassettag -m chassis`
- `racadm getassettag`
  `chassis 78373839-33`

# getchassisname

**Description**

Displays the name of the chassis.

To use this subcommand, you must have **CMC Login User** privilege.

**Synopsis**

`racadm getchassisname`

**Example**

`racadm getchassisname`

`PowerEdge 2955`

# getconfig

**Description**

Retrieves iDRAC configuration parameters individually, or all iDRAC configuration groups may be retrieved and saved to a file.

**Synopsis**

`racadm getconfig -f <filename>`

`racadm getconfig -g <groupName> [-i <index>]`

`racadm getconfig -u <username>`

`racadm getconfig -h`

`racadm getconfig -g <groupName> -o <objectName>`
`[-i index]`

**Input**

- **-f** — The **-f** *<filename>* option directs getconfig to write the entire iDRAC configuration to a configuration file. This file can be used for batch configuration operations using the **config** subcommand.
- **-g** — The **-g** *<groupName>*, or group option, can be used to display the configuration for a single group. The **groupName** is the name for the group used in the **racadm.cfg** files. If the group is an indexed group, use the **-i** option.
- **-h** — The **-h**, or **help** option, displays a list of all available configuration groups in alphabetical order. This option is useful when you do not remember exact group names.
- **-i** — The -i *<index>*, or **index** option, is valid only for indexed groups and can be used to specify a unique group. The *<index>*is a decimal integer from 1 through n, where n can vary from 1 to maximum number of indexes a particular group supports. If **-i** *<index>* is not specified, a value of 1 is assumed for groups, which are tables that have multiple entries. The index is specified by the index value, not a *named* value.
- **-o** — The -o *<objectname>* or **object** option specifies the object name that is used in the query. This option is optional and can be used with the **-g** option.
- **-u** — The -u *<username>*, or **user name** option, can be used to display the configuration for the specified user. The *<username>* option is the login name for the user.
- **-v** — The **-v** option displays additional details with the display of the properties and is used with the **-g** option.

**Output**

This subcommand generates error output upon encountering either of the following:

- Invalid syntax, group name, object name, index, or other invalid database members
- RACADM CLI transport failures

If errors are not encountered, this subcommand displays the contents of the specified configuration.

**Example**

- Displays all of the configuration properties (objects) that are contained in the group **cfgLanNetworking**.

  ```
  racadm getconfig -g
  cfgLanNetworking
  ```

- Saves all group configuration objects from iDRAC to **myrac.cfg**.

  ```
  racadm getconfig -f myrac.cfg
  ```

- Displays a list of the available configuration groups on iDRAC in an alphabetical order.

  ```
  racadm getconfig -h
  ```

- Displays the configuration properties for the user named **root**.

```
racadm getconfig -u root
```

- Displays the user group instance at index 2 with verbose information for the property values.

```
racadm getconfig -g cfgUserAdmin
-i 2 -v
```

# getdcinfo

**Description**

Displays general I/O module and daughter card configuration information. Only the CMC controls daughtercards.

To use this subcommand, you must have **CMC Login User** privilege.

**NOTE:** Fabric verification for server DCs is performed only when the chassis is powered on. When the chassis is on standby power, iDRACs on the server modules remain powered off and thus are unable to report the server's DC fabric type. The DC fabric type may not be reported in the CMC user interface until iDRAC on the server is powered on.

**Synopsis**

```
racadm getdcinfo
```

**Input**

**-n** — Displays the model names for the daughter cards in servers.

**Example**

The example output below is for a system with multi-slot servers.

```
racadm getdcinfo

Group A I/O Type : Gigabit Ethernet

Group B I/O Type : Gigabit Ethernet

Group C I/O Type : 10 GbE XAUI
```

| *<IO#>* | *<Type>* | *<State>* | *<Role>* |
|---|---|---|---|
| switch-1 | Gigabit Ethernet | OK | Master |
| switch-2 | None | N/A | N/A |
| switch-3 | Gigabit Ethernet | OK | Master |
| switch-4 | None | N/A | N/A |
| switch-5 | Gigabit Ethernet | OK | Member |
| switch-6 | None | N/A | N/A |

| ***<Server#>*** | ***<Presence>*** | ***<DC1 Type>*** | ***<DC1 State>*** | ***<DC2 Type>*** | ***<DC2 State>*** |
|---|---|---|---|---|---|
| server-1 | Present | None | N/A | None | N/A |
| server-2 | Not Present | None | N/A | None | N/A |
| server-3 | Not Present | None | N/A | None | N/A |

| *<Server#>* | *<Presence>* | *<DC1 Type>* | *<DC1 State>* | *<DC2 Type>* | *<DC2 State>* |
|---|---|---|---|---|---|
| server-4 | Present | None | N/A | Gigabit Ethernet | OK |
| server-5 | Not Present | None | N/A | None | N/A |
| server-6 | Not Present | None | N/A | None | N/A |
| server-7 | Not Present | None | N/A | None | N/A |
| server-8 | Present | FibreChannel 4 | Invalid | None | N/A |
| server-9 | Extension(1) | None | N/A | None | N/A |
| server-10 | Not Present | None | N/A | None | N/A |
| server-11 | Not Present | None | N/A | None | N/A |
| server-12 | Not Present | None | N/A | None | N/A |
| server-13 | Not Present | None | N/A | None | N/A |
| server-14 | Not Present | None | N/A | None | N/A |
| server-15 | Not Present | None | N/A | None | N/A |
| server-16 | Not Present | None | N/A | None | N/A |

getdcinfo -n

| *<Server#>* | *<Presence>* | *<DC1 Model Name>* | *<DC2 Model Name>* |
|---|---|---|---|
| server-1 | Present | None | None |
| server-2 | Not Present | None | None |
| server-3 | Not Present | None | None |
| server-4 | Present | None | Broadcom M5708t |
| server-5 | Not Present | None | None |
| server-6 | Not Present | None | None |
| server-7 | Not Present | None | None |
| server-8 | Present | LPe1105-M4 | None |
| server-9 | Extension(1) | None | None |
| server-10 | Not Present | None | None |
| server-11 | Not Present | None | None |
| server-12 | Not Present | None | None |

```
server-13          Not Present          None                 None

server-14          Not Present          None                 None

server-15          Not Present          None                 None

server-16          Not Present          None                 None
```

# getflexaddr

**Description**

Displays enabled/disabled status for the entire chassis. If used with -i, the command displays MACs/WWN on a per slot basis.

To use this subcommand, you must have **CMC Login User** privilege.

**NOTE:** If FlexAddress is not activated on the chassis, the command displays server-assigned MAC/WWN addresses. If the slot is empty, the command leaves the server-assigned MAC/WWN addresses blank. If an external console controls the MAC/WWN addresses, the command displays an externally managed message.

**Synopsis**

```
racadm getflexaddr [-i <slotNum>]
```

**Input**

-i <*slotNum*> — Specifies the slot information to be displayed. <*slotNum*> can be from 1 to 16.

**Output**

**Example**

**Example**

Display current flex address settings for all slots and fabrics

```
racadm getflexaddr
```

```
<Slot#>                <Status>               <Server Presence>

1                      Enabled                Present

2                      Enabled                Present

3                      Enabled                Not Present

4                      Enabled                Not Present

5                      Enabled                Present

6                      Enabled                Not Present

7                      Enabled                Not Present

8                      Enabled                Not Present
```

```
9                       Enabled                 Not Present

10                      Enabled                 Extension(2)

11                      Enabled                 Not Present

12                      Enabled                 Not Present

13                      Enabled                 Extension(5)

14                      Enabled                 Not Present

15                      Enabled                 Not Present

16                      Enabled                 Not Present

idrac System Disabled
```

Display the current flex address setting for slot 1.

```
racadm getflexaddr -i 1
Slot-1 server presence = Present
Slot-1 flexaddress enabled = 1
```

| *<Fabric>* | *<Type>* | *<Server-Assigned>* | *<Chassis-Assigned>* |
|---|---|---|---|
| slot1-A1 | Gigabit Ethernet | 00:1C:23:CD:AC:D2(active) | 00:1E:C9:FF:E3:21 |
| | iSCSI | 00:1C:23:CD:AC:D3(active) | 00:1E:C9:FF:E3:22 |
| slot1-A2 | Gigabit Ethernet | 00:1C:23:CD:AC:D4(active) | 00:1E:C9:FF:E3:23 |
| | iSCSI | 00:1C:23:CD:AC:D5(active) | 00:1E:C9:FF:E3:24 |
| slot1-B1 | Gigabit Ethernet | 00:1D:09:71:B3:60 | 00:1E:C9:FF:E3:25(active) |
| | iSCSI | 00:1D:09:71:B3:61 | 00:1E:C9:FF:E3:26(active) |
| slot1-B2 | Gigabit Ethernet | 00:1D:09:71:B3:62 | 00:1E:C9:FF:E3:27(active) |
| | iSCSI | 00:1D:09:71:B3:63 | 00:1E:C9:FF:E3:28(active) |
| slot1-C1 | Fiber Channel 4 | 10:00:00:00:C9:63:51:0E | 20:01:00:1E:C9:FF:E3:29(active) |
| slot1-C2 | Fiber Channel 4 | 10:00:00:00:C9:63:51:0D | 20:02:00:1E:C9:FF:E3:29(active) |

# getfanreqinfo

| | |
|---|---|
| **Description** | Displays fan speed request for Servers and Switches in percent (%).<br>To use this subcommand, you must have **CMC Login User** privilege.<br>This subcommand is not applicable for iDRAC. |
| **Synopsis** | `racadm getfanreqinfo` |
| **Input** | None |
| **Output** | None |

**Example**

```
racadm getfanreqinfo

[Ambient Temperature Fan Request %]

38

[Server Module Fan Request Table]
```

| *<Slot#>* | *<Server Name>* | *<Blade Type>* | *<Power State>* | *<Presence>* | *<Fan Request %>* |
|---|---|---|---|---|---|
| 1 | SLOT-01 | PowerEdgeM600 | ON | Present | 33 |
| 2 | SLOT-02 | PowerEdgeM905 | ON | Present | 35 |
| 3 | SLOT-03 | PowerEdgeM710 | ON | Present | 44 |
| 4 | SLOT-04 | PowerEdgeM610 | ON | Present | 46 |
| 5 | SLOT-05 | PowerEdgeM610 | ON | Present | 46 |
| 6 | SLOT-06 | N/A | N/A | Not Present | N/A |
| 7 | SLOT-07 | PowerEdgeM605 | ON | Present | 100 |

```
fwupdate
```

| | | | | | |
|---|---|---|---|---|---|
| 8 | SLOT-08 | PowerEdgeM710 | ON | Present | 44 |
| 9 | SLOT-09 | N/A | N/A | Not Present | N/A |
| 10 | SLOT-10 | N/A | Extension(2) | N/A | N/A |
| 11 | SLOT-11 | N/A | Extension(3) | N/A | N/A |
| 12 | SLOT-12 | N/A | N/A | Not Present | N/A |
| 13 | SLOT-13 | N/A | N/A | Not Present | N/A |

| | | | | | |
|---|---|---|---|---|---|
| 14 | SLOT-14 | PowerEdgeM600 | ON | Present | 33 |
| 15 | SLOT-15 | N/A | N/A | Not Present | N/A |
| 16 | SLOT-16 | N/A | Extension(8) | N/A | N/A |

Switch Module Fan Request Table

| *<Slot#>* | *<Server Name>* | *<Blade Type>* | *<Power State>* | *<Presence>* | *<Fan Request %>* |
|---|---|---|---|---|---|
| 1 | SLOT-01 | PowerEdgeM600 | ON | Present | 33 |
| 2 | SLOT-02 | PowerEdgeM905 | ON | Present | 35 |
| 3 | SLOT-03 | PowerEdgeM710 | ON | Present | 44 |
| 4 | SLOT-04 | PowerEdgeM610 | ON | Present | 46 |
| 5 | SLOT-05 | PowerEdgeM610 | ON | Present | 46 |
| 6 | SLOT-06 | N/A | N/A | Not Present | N/A |
| 7 | SLOT-07 | PowerEdgeM605 | ON | Present | 100 |
| fwupdate | | | | | |
| 8 | SLOT-08 | PowerEdgeM710 | ON | Present | 44 |
| 9 | SLOT-09 | N/A | N/A | Not Present | N/A |
| 10 | SLOT-10 | N/A | Extension(2) | N/A | N/A |
| 11 | SLOT-11 | N/A | Extension(3) | N/A | N/A |
| 12 | SLOT-12 | N/A | N/A | Not Present | N/A |
| 13 | SLOT-13 | N/A | N/A | Not Present | N/A |
| 14 | SLOT-14 | PowerEdgeM600 | ON | Present | 33 |
| 15 | SLOT-15 | N/A | N/A | Not Present | N/A |
| 16 | SLOT-16 | N/A | Extension(8) | N/A | N/A |

Switch Module Fan Request Table

| <IO Name> | <Name> | <Type> | <Presence> | <Fan Request%> |
|---|---|---|---|---|
| Switch-1 | Dell Ethernet Pass-Through | Gigabit Ethernet | Present | 30 |
| Switch-2 | Dell PowerConnect M6220 | Gigabit Ethernet | Present | 30 |
| Switch-3 | N/A | None | Not Present | N/A |
| Switch-4 | N/A | None | Not Present | N/A |
| Switch-5 | N/A | None | Not Present | N/A |
| Switch-6 | N/A | None | Not Present | N/A |

# getioinfo

**Description** Displays general information about the I/O modules on the chassis.

To use this subcommand, you must have **CMC Login User** privilege.

**NOTE:** The fabric type may be any supported I/O fabric type, such as Ethernet, Fiber Channel, and Infiniband.

**Synopsis** `racadm getioinfo`

**Example**

```
racadm getioinfo
```

| <IO> | <Name> | <Type> | <Presence> | <POST> | <Power> | <Role> |
|---|---|---|---|---|---|---|
| switch-1 | Dell Ethernet Passthrough | Gigabit Ethernet | Present | OK | ON | Master |
| switch-2 | N/A | None | Not Present | N/A | N/A | N/A |
| switch-3 | Brocade 4424 | Fibre Channel 4 | Present | OK | ON | Master |
| switch-4 | N/A | None | Not Present | N/A | N/A | N/A |
| switch-5 | N/A | None | Not Present | N/A | N/A | N/A |
| switch-6 | N/A | None | Not Present | N/A | N/A | N/A |

# getkvminfo

**Description**

Displays iKVM module information.

To use this subcommand, you must have **CMC Login User** privilege.

**Synopsis**

```
racadm getkvminfo
```

**Example**

```
racadm getkvminfo
```

| <*module*> | <*presence*> | <*model*> | <*FW Version*> | <*status*> |
|---|---|---|---|---|
| KVM | Present | Avocent iKVM Switch | 00.05.00.04 | Ready |

# getled

**Description**

Displays the LED settings on a module: blinking, not blinking, or unknown (for empty slots).

To use this subcommand, you must have **Login User** privilege.

**Synopsis**

```
racadm getled -m <module>
```

**Input**

CMC only options:

-m <*module*> — Specifies the module whose LED settings you want to view.

<*module*> can be one of the following:

- server-nx where n=1-8; x=a,b,c,d
- switch-n where n=1– 6
- chassis
- cmc-active

**Output**

**Example**

For CMC:

- `racadm getled -m server-10` <*module*> <*LED state*> server-10 Blinking
- `racadm getled -m chassis` <*module*> <*LED state*> server-10 Not blinking
- `racadm getled -m server-1` <*module*> <*LED state*> server-1 ON
- `racadm getled -m server-9` <*module*> <*LED state*> server-9 Extension(1)

For iDRAC:

```
racadm getled
```

LED is blinking

# getmacaddress

**Description** Displays the MAC/WWN addresses for all modules or for a specified module.

To use this subcommand, you must have **CMC Login User** privilege.

**Synopsis**

- racadm getmacaddress [-m <*module*>] [-t iscsi] [-x]
- racadm getmacaddress [-a]

**Input**

- **-m** <*module*> — Specifies the module whose MAC address you want to view.

  <*module*> may be one of the following:

  server-nx where *n*=1-8 ; *x* = a,b,c,d

  switch-n where *n*=1–6
- **-t** — Displays the iSCSI MAC addresses for all servers or the specified server if used with -m option.
- **-x** — Displays the extra MACs (Ethernet or iSCSI) for servers with additional LOM MACs and must be used with -m option.
- **-a** — Displays the Ethernet and iSCSI MAC/WWN addresses for all iDRAC/LOMs/ mezzanine cards. When FlexAddress is enabled for a particular slot, then the chassis-assigned MAC/WWN address is displayed.

**Example**

Display iSCSI MAC addresses for all servers.

```
racadm getmacaddress -t iscsi
```

Display iSCSI MAC for server-1.

```
racadm getmacaddress -m server-1 -t iscsi
```

Display extra iSCSI MACs for server-1 (if available).

```
racadm getmacaddress -m server-1 -t iscsi -x
```

Display MAC for server-1.

```
racadm getmacaddress -m server-1
```

```
<Name>        <Presence>      <BMC MAC          <NIC1 MAC         <NIC2 MAC
                              Address>          Address>          Address>

server-1      Present         00:11:43:FD:B7:   00:11:43:FD:B7:   00:11:43:FD:B7:
                              2A                2A                2B

server-9      Extension(1)    N/A               00:11:43:FD:B7:   00:11:43:FD:B7:
                                                2C                2D
```

Display extra MACs for server-1 (if available).

```
racadm getmacaddress -m server-1 -x
```

```
<Name>        <Presence>      <BMC MAC          <NIC1 MAC         <NIC2 MAC
                              Address>          Address>          Address>

server-1      Present         00:11:43:FD:B7:   00:11:43:FD:B7:   00:11:43:FD:B7:
                              2A                2A                2B
```

| | | | | |
|---|---|---|---|---|
| | | | 00:11:43:FD:B7:2C | 00:11:43:FD:B7:2D |

racadm getmacaddress

| *<Name>* | *<Presence>* | *<BMC MAC Address>* | *<NIC1 MAC Address>* | *<NIC2 MAC Address>* |
|---|---|---|---|---|
| CMC | Present | N/A | 00:1E:4F:1F:3C:58 | N/A |
| Server-1 | Present | 00:1E:4F:2A:AF:7B | 00:1E:4F:2A:D3:97 | 00:1E:4F:2A:D3:99 |
| Server-2 | Present | 00:22:19:D2:1E:84 | N/A | N/A |
| Server-3 | Not Present | N/A | N/A | N/A |
| Server-4 | Present | 00:18:8B:FF:45:2A | 00:18:8B:FF:AA:02 | 00:18:8B:FF:AA:04 |
| Server-5 | Present | 00:19:B9:FF:FE:E2 | 00:19:B9:FF:FC:0C | 00:19:B9:FF:FC:0E |
| Server-6 | Present | 00:22:19:D2:1D:D4 | N/A | N/A |
| Server-7 | Present | 00:1E:4F:FF:FC:DC | 00:1E:4F:FF:F0:B0 | 00:1E:4F:FF:F0:B2 |
| Server-8 | Not Present | N/A | N/A | N/A |
| Server-9 | Not Present | N/A | N/A | N/A |
| Server-10 | Not Present | N/A | N/A | N/A |
| Server-11 | Not Present | N/A | N/A | N/A |
| Server-12 | Not Present | N/A | N/A | N/A |
| Server-13 | Present | 00:18:8B:FF:45:26 | 00:18:8B:FF:A9:F2 | 00:18:8B:FF:A9:F4 |
| Server-14 | Present | 00:22:19:D2:1E:A2 | N/A | N/A |
| Server-15 | Extension(7) | N/A | 00:1E:4F:FF:F0:B4 | 00:1E:4F:FF:F0:B6 |
| Server-16 | Not Present | N/A | N/A | N/A |
| Switch-1 | Present | N/A | 00:00:00:00:00:00 | N/A |
| Switch-2 | Present | N/A | 00:00:00:00:00:00 | N/A |

```
Switch-3      Present          N/A              00:00:00:00:00:  N/A
                                                00

Switch-4      Present          N/A              00:00:00:00:00:  N/A
                                                00

Switch-5      Present          N/A              00:05:1E:08:EB:  N/A
                                                0B

Switch-6      Not Present      N/A              N/A              N/A
```

Display Ethernet and iSCSI MACS of all LOMs/mezzanine cards.

```
racadm getmacaddress -a
```

```
<Name>        <Type>        <Presence>   <BMC MAC          <NIC1 MAC        <NIC2 MAC
                                         Address>          Address>         Address>

CMC           N/A           Present      N/A               00:1E:4F:1F:     N/A
                                                           3C:58

Server-1-A    Gigabit       Present      00:1E:4F:         00:1E:4F:        00:1E:4F:
              Ethernet                   2A:AF:7B          2A:D3:97         2A:D3:99

              iSCSI         Present                        00:1E:4F:        00:1E:4F:
                                                           2A:D3:98         2A:D3:9A

Server-1-B    Gigabit       Present                        Not              Not
              Ethernet                                     Installed        Installed

              iSCSI         Present                        Not              Not
                                                           Installed        Installed

Server-1-C    Fibre         Present                        Not              Not
              Channel 4                                    Installed        Installed

Server-2-A    Gigabit       Present      00:22:19:D2:      N/A              N/A
              Ethernet                   1E:84

              iSCSI         Present                        N/A              N/A

Server-2-B    Gigabit       Present                        Not              Not
              Ethernet                                     Installed        Installed

              iSCSI         Present                        Not              Not
                                                           Installed        Installed

Server-2-C    Fibre         Present                        Not              Not
              Channel 4                                    Installed        Installed

Server-3      N/A           Not Present  N/A               N/A              N/A

Server-4-A    Gigabit       Present      00:18:8B:FF:      00:18:8B:FF:     00:18:8B:FF:
              Ethernet                   45:2A             AA:02            AA:04

              iSCSI         Present                        00:18:8B:FF:     00:18:8B:FF:
                                                           AA:03            AA:05
```

| | | | | | |
|---|---|---|---|---|---|
| Server-4-B | Gigabit Ethernet | Not Present | | Not Installed | Not Installed |
| | iSCSI | Present | | Not Installed | Not Installed |
| Server-4-C | Fibre Channel 4 | Present | | Not Installed | Not Installed |
| Server-5-A | Gigabit Ethernet | Present | 00:19:B9:FF:FE:E2 | 00:19:B9:FF:FC:0C | 00:19:B9:FF:FC:0E |
| | iSCSI | Present | | 00:19:B9:FF:FC:0D | 00:19:B9:FF:FC:0F |
| Server-5-B | Gigabit Ethernet | Present | | Not Installed | Not Installed |
| | iSCSI | Present | | Not Installed | Not Installed |
| Server-5-C | Fibre Channel 4 | Present | | Not Installed | Not Installed |
| Server-6-A | Gigabit Ethernet | Present | 00:22:19:D2:1D:D4 | N/A | N/A |
| | iSCSI | Present | | N/A | N/A |
| Server-6-B | Gigabit Ethernet | Present | | Not Installed | Not Installed |
| | iSCSI | Present | | Not Installed | Not Installed |
| Server-6-C | Fibre Channel 4 | Present | | Not Installed | Not Installed |
| Server-7-A | Gigabit Ethernet | Present | 00:1E:4F:FF:FC:DC | 00:1E:4F:FF:F0:B0 | 00:1E:4F:FF:F0:B2 |
| | iSCSI | Present | | 00:1E:4F:FF:F0:B1 | 00:1E:4F:FF:F0:B3 |
| Server-7-B | Gigabit Ethernet | Present | | 00:1D:09:72:01:C8 | 00:1D:09:72:01:CA |
| Server-7-C | Fibre Channel 4 | Present | | 21:00:00:1B:32:0E:CF:34 | 21:01:00:1B:32:2E:CF:34 |
| Server-8 | N/A | Not Present | N/A | N/A | N/A |
| Server-9 | N/A | Not Present | N/A | N/A | N/A |
| Server-10 | N/A | Not Present | N/A | N/A | N/A |
| Server-11 | N/A | Not Present | N/A | N/A | N/A |
| Server-12 | N/A | Not Present | N/A | N/A | N/A |

| | | | | | |
|---|---|---|---|---|---|
| Server-13-A | Gigabit Ethernet | Present | 00:18:8B:FF:45:26 | 00:18:8B:FF:A9:F2 | 00:18:8B:FF:A9:F4 |
| | iSCSI | Present | | 00:18:8B:FF:A9:F3 | 00:18:8B:FF:A9:F5 |
| Server-13-B | Gigabit Ethernet | Present | | 00:1D:09:71:E0:78 | 00:1D:09:71:E0:7A |
| | iSCSI | Present | | 00:1D:09:71:E0:79 | 00:1D:09:71:E0:7B |
| Server-13-C | Fibre Channel 4 | Present | | 21:00:00:1B:32:0E:EF:30 | 21:01:00:1B:32:2E:EF:30 |
| Server-14-A | Gigabit Ethernet | Present | 00:22:19:D2:1E:A2 | N/A | N/A |
| | iSCSI | Present | | N/A | N/A |
| Server-14-B | Gigabit Ethernet | Present | | Not Installed | Not Installed |
| | iSCSI | Present | | Not Installed | Not Installed |
| Server-14-C | Fibre Channel 4 | Present | | Not Installed | Not Installed |
| Server-15-A | Gigabit Ethernet | Extension(7) | N/A | 00:1E:4F:FF:F0:B4 | 00:1E:4F:FF:F0:B6 |
| | iSCSI | Extension(7) | N/A | 00:1E:4F:FF:F0:B5 | 00:1E:4F:FF:F0:B7 |
| Server-15-B | Gigabit Ethernet | Extension(7) | N/A | 00:1D:09:71:E1:20 | 00:1D:09:71:E1:22 |
| | iSCSI | Extension(7) | N/A | 00:1D:09:71:E1:21 | 00:1D:09:71:E1:23 |
| Server-15-C | Fibre Channel 4 | Extension(7) | N/A | 21:00:00:1B:32:17:3A:66 | 21:00:00:1B:32:37:3A:66 |
| Server-16 | N/A | Not Present | N/A | N/A | N/A |
| Switch-1 | None | Present | N/A | 00:00:00:00:00:00 | N/A |
| Switch-2 | None | Present | N/A | 00:00:00:00:00:00 | N/A |
| Switch-3 | None | Present | N/A | 00:00:00:00:00:00 | N/A |
| Switch-4 | None | Present | N/A | 00:00:00:00:00:00 | N/A |
| Switch-5 | None | Present | N/A | 00:05:1E:08:EB:0B | N/A |

```
Switch-6      N/A           Not Present   N/A           N/A           N/A
```

# getmodinfo

**Description** Displays configuration and status information for all modules or a specified module (server, switch, CMC, fan unit, power supply unit, KVM, or I2C cable) in the chassis.

For CMC only, a power state of "Primary" denotes Active CMC.

To use this subcommand, you must have **CMC Login User** privilege.

**NOTE:** The service tag field is blank for modules that do not have service tags.

**Synopsis** `racadm getmodinfo [-m <module>] [-A]`

**Input**

- **-m** <*module*> — Specifies the module whose configuration and status information you want to view. The default command (no options) displays information about all major components in the chassis.

  <*module*> may be any of the following values:

  server-nx where *n*=1-8 ; *x* = a,b,c,d

  — switch-n where n=1–6

  — CMC-n where n=1–2

  — fan-n where n=1–9

  — ps-n where n=1–6

  — chassis

  — kvm

  — io-cable

  — fpc-cable

- **-A —** Suppresses headers and labels in the output.

**Example**

```
racadm getmodinfo -m switch-1

<module>      <presence>    <pwrState>    <health>       <svcTag> Switch-1
       Present           ON            OK CG09074

racadm getmodinfo

<module> <presence>    <pwrState>    <health>       <svcTag>
Chassis          Present          ON           Not OK        ABC1234
Fan-1            Present       ON            OK
Fan-2            Present       ON            OK
Fan-3            Present       ON            OK
Fan-4            Present       ON            OK
Fan-5            Present       ON            OK
Fan-6            Present       ON            OK
Fan-7            Present       ON            OK
Fan-8            Present       ON            OK
Fan-9            Present       ON            OK
PS-1             Present       Online        OK
PS-2             Not Present   N/A           N/A           N/A
PS-3             Present       Online        OK
PS-4             Not Present   N/A           N/A           N/A
PS-5             Not Present   N/A           N/A           N/A
PS-6             Not Present   N/A           N/A           N/A
CMC-1            Present       Primary        OK            N/A
CMC-2            Not Present   N/A           N/A           N/A
Switch-1         Not Present   N/A           N/A           N/A
```

```
Switch-2        Not Present   N/A           N/A          N/A
Switch-3        Not Present   N/A           N/A          N/A
Switch-4        Not Present   N/A           N/A          N/A
Switch-5        Not Present   N/A           N/A          N/A
Switch-6        Not Present   N/A           N/A          N/A
Server-1        Not Present   N/A           N/A          N/A
Server-2        Present       OFF           OK
Server-3        Present       ON            OK           S YW
Server-4        Present       ON            OK
Server-5        Present       ON            OK
Server-6        Present       ON            OK           1234567
Server-7        Present       ON            OK
Server-8        Not Present   N/A           N/A          N/A
Server-9        Not Present   N/A           N/A          N/A
Server-10       Extension(2)  N/A           N/A          N/A
Server-11       Not Present   N/A           N/A          N/A
Server-12       Present       ON            OK
Server-13       Not Present   N/A           N/A          N/A
Server-14       Present       ON            OK           0000015
Server-15       Present       ON            OK
Server-16       Present       ON            OK
KVM             Present       ON            OK
IO-Cable        Present       ON            OK           ABC1234
FPC-Cable         Present         ON              OK       ABC1234
```

**NOTE:** For CMC only, a power state of "Primary" denotes Active CMC.

# getniccfg

| | |
|---|---|
| **Description** | Displays the current NIC settings. |
| **Synopsis** | `racadm getniccfg` |
| **Input** | `racadm getniccfg`<br>`racadm getniccfg –m <module>`<br>where –m must be one of the following values:<br>• `chassis`<br>: default state if -m is not specified<br>• `server-n`<br>: where n = 1 to 16<br>• `server-nx`<br>: where n = 1 to 8; x = a to d (lower case)<br>• `switch-n`<br>: where n = 1 to 6 |
| **Example** | `racadm getniccfg`<br>`racadm getniccfg –m <module>` |

### Output

The **getniccfg** subcommand displays an appropriate error message if the operation is not successful. Otherwise, the output is displayed in the following format:

**IPv4 settings:**

```
NIC Enabled     = 1
IPv4 Enabled = 1
DHCP Enabled    = 1
IP Address      = 10.35.0.64
Subnet Mask     = 255.255.255.0
Gateway         = 10.35.0.1
```

**IPv6 settings:**

```
IPv6 Enabled       = 0
DHCP6 Enabled      = 1
IP Address 1       = ::
Gateway            = ::
Link Local Address = ::
IP Address 2       = ::
IP Address 3       = ::
IP Address 4       = ::
IP Address 5       = ::
IP Address 6       = ::
IP Address 7       = ::
IP Address 8       = ::
IP Address 9       = ::
IP Address 10      = ::
IP Address 11      = ::
IP Address 12      = ::
IP Address 13      = ::
IP Address 14      = ::
IP Address 15      = ::
```

**LOM Status:**

```
NIC Selection   = Dedicated
Link Detected   = Yes
Speed           = 10Mb/s
Duplex Mode     = Half Duplex
```

**NOTE:** IPv6 information is displayed only if IPv6 is enabled in iDRAC.

**NOTE:** LOM Status is displayed only for iDRAC on Rack and Tower servers and is not displayed for iDRAC Enterprise on Blade servers.

# getpbinfo

**Description** Displays power budget status information.

To use this subcommand, you must have **CMC Login User** privilege.

**Synopsis** `racadm getpbinfo`

### Example

```
racadm getpbinfo

[Power Budget Status]
System Input Power              = 700 W
Peak System Power               = 0 W
Peak System Power Timestamp     = 01:08:23 01/27/2009
Minimum System Power            = 0 W
Minimum System Power Timestamp  = 20:18:30 01/27/2000
Overall Power Health            = Not OK
Redundancy                      = No
System Input Power Cap          = 7928 W
Redundancy Policy               = None
Dynamic PSU Engagement Enabled  = No
System Input Max Power Capacity = 0 W
Input Redundancy Reserve        = 0 W
Input Power Allocated to Servers = 0 W
Input Power Allocated to Chassis Infrastructure = 51 watts
Total Input Power Available for Allocation     = 0 W
Standby Input Power Capacity                    = 0 W


[Chassis Power Supply Status Table]
<Name> <Presence> <Power State> <Input Current> <Input Volts><Output Rating>
        PS1                Online                On
16.1 A                  32 V                2360 W

      PS2                Not Present           Slot Empty
N/A                 N/A                              N/A

      PS3                Not Present           Slot Empty
N/A                  N/A                              N/A

      PS4                Not Present           Slot Empty
N/A                  N/A                              N/A

        PS5                Not Present           Slot
Empty                       N/A                   N/
A                                 N/A

        PS6                Not Present           Slot
Empty                       N/A                   N/A
N/A

[Server Module Power Allocation Table]
<Slot#><Server Name><PowerState><Allocation><Priority><Blade Type>

  1    SLOT-01        N/A       N/A           5
   N/A
  2    SLOT-02        OFF       0 W           5       PowerEdgeM805
  3    SLOT-03        ON        164 W         5         N/A
  4    SLOT-04        ON        155 W         5
  5    SLOT-05        ON        180 W         5
  6    SLOT-06        ON        180 W         5       PowerEdgeM600
  7    SLOT-07        ON        170 W         5
  8    SLOT-08        N/A       N/A           5         N/A
```

```
9    SLOT-09        N/A       N/A          5         N/A
10   SLOT-10     Extension(2) N/A          5         N/A
11   SLOT-11        N/A       N/A          5         N/A
12   SLOT-12        ON        125 W        5      PowerEdgeM600
13   SLOT-13        N/A       N/A          5         N/A
14   SLOT-14        ON        342 W        5         N/A
15   SLOT-15        ON        140 W        5
16   SLOT-16        ON        125 W        5         N/A
```

# getpminfo

**Description**

Displays power management status information.

To use this subcommand, you must have **CMC Login User** privilege.

**Synopsis**

```
racadm getpminfo
```

**Example**

```
racadm getpminfo

[Real-Time Power Statistics]
System Input Power              = 600
W (188 BTU/hr)
Peak System Power               = 600
W (188 BTU/hr
Peak System Power Start Time    =
16:02:10 01/16/2008
Peak System Power Timestamp     =
06:32:55 01/26/2009
Minimum System Power            = 400
W (177 BTU/hr)
Minimum System Power Start Time =
22:43:21 01/21/2008
Minimum System Power Timestamp  =
06:32:55 01/26/2009
System Idle Power               = 68 W
(188 BTU/hr)
System Potential Power          = 68 W
(188 BTU/hr)
System Input Current Reading    = 31.2
A

[Real-Time Energy Statistics]
System Energy
Consumption               = 6.4 kWh
System Energy Consumption Start
Time    = 16:02:10 01/16/2008
System Energy Consumption
Timestamp     = 16:02:10 01/16/2008

[System Power Status]
Chassis Power State
= ON
Overall Power Health = OK
Redundancy = No

[System Power Policy Configuration]
System Input Power
Cap                   = 7928 W (7928
BTU/hr |
10%)
Surplus for Peak
```

```
Performance            = 7000 W (6130
BTU/hr)
Redundancy Policy
= None
Dynamic PSU Engagement Enabled
= No

[Power Budgeting]
System Input Max Power
Capacity                 = 0 W
Input Redundancy
Reserve                        = 0 W
Input Power Allocated to
Servers                = 0 W
Input Power Allocated to Chassis
Infrastructure = 51W
Total Input Power Available for
Allocation = 0 W
Standby Input Power
Capacity                   = 0 W
```

# getraclog

**Description**

The getraclog command displays RAC or CMC log entries.

On local racadm, when you run this command, the data is exposed to RACADM as a USB partition and may display a pop-up message.

**Synopsis**

```
racadm getraclog -s <start record> -c <count>
```

For CMC:

```
racadm getraclog -i [-A]
```

```
racadm getraclog [-A] [-c <count>] [-s <start-record>] [--more]
```

**Input**

- **-c** — Specifies the number of records to display. On local racadm, if this parameter is not specified, by default 100 logs are retrieved.
- **-i** — Displays the number of entries in the RAC or CMC log.
- **--more** — Displays one screen at a time and prompts you to continue (similar to the UNIX more command).
- **-s** — Specifies the starting record used for the display.
- **-A** — Displays the output with no headers or labels.

**NOTE:**

- If no options are provided, the entire log is displayed.
- **-i** option is not applicable for iDRAC.

**Output**

For iDRAC:

```
SeqNumber = 286
Message ID = USR0005
Category = Audit
AgentID = RACLOG
Severity = Information
Timestamp = 2012-10-05 06:25:27
Message = Login failed from processdisco06a: 10.92.68.245
Message Arg 1 = processdisco06a
```

```
Message Arg 2 = 10.92.68.245
FQDD = iDRAC.Embedded.1
```

**Example**

- Display the starting record and the number of records.

  ```
  racadm getraclog -s 10 -c 2
  ```

- Display a few records and prompt to display another set of records.

  ```
  $ racadm getraclog --more
  Dec 4 22:23:09 CMC-JP4BF2S Login success from 10.94.46.52
  (username=root, type=SSH, sid=16393)
  Dec 4 22:24:54 CMC-JP4BF2S Login success from 10.94.46.52
  (username=test, type=SSH, sid=35885)
  Dec 4 22:26:20 CMC-JP4BF2S Login success from 10.94.46.52
  (username=root, type=GUI, sid=27476)
  Dec 4 22:28:06 CMC-JP4BF2S Mod password of user puser succeeds
  Dec 4 22:28:06 CMC-JP4BF2S Mod privileges of user puser
  succeeds
  Dec 4 22:28:21 CMC-JP4BF2S Login success from 10.94.46.52
  (username=puser, type=SSH, sid=39229)
  Dec 4 22:29:12 CMC-JP4BF2S Mod password of user nuser succeeds
  Dec 4 22:29:12 CMC-JP4BF2S Mod privileges of user nuser
  succeeds
  Dec 4 22:29:51 CMC-JP4BF2S SSH login failed (username=nuser,
  ip=10.94.46.52, reason=Local user fails to login )
  Dec 4 22:30:23 CMC-JP4BF2S last message repeated 3 times
  Dec 4 22:30:23 CMC-JP4BF2S Mod privileges of user nuser
  succeeds
  Dec 4 22:30:38 CMC-JP4BF2S SSH login failed (username=nuser,
  ip=10.94.46.52, reason=Local user fails to login )
  [more]
  ```

# getractime

**Description** Displays the current iDRAC time.

**Synopsis**

- `racadm getractime [-d]`
- `racadm getractime [-d] [-z] [-n]`

**Input**

- **-d** — Displays the time in the format, yyyymmddhhmmss.mmmmmms.
- **-z** — Displays timezone. This option is specific to CMC only.
- **-n** — Displays NTP peer information. This option is specific to CMC only.

**NOTE:** If no options are provided, the getractime subcommand displays the time in a common readable format.

**Output** The current iDRAC time is displayed.

**Example**

- `racadm getractime`
  Thu Dec 8 20:15:26 2005
- `racadm getractime -d`
  20051208201542.000000

# getredundancymode

| | |
|---|---|
| **Description** | Displays the redundancy status (Redundant or Non-Redundant) of the CMC.<br>To use this subcommand, you must have **CMC Login User** privilege. |
| **Synopsis** | `racadm getredundancymode` |
| **Example** | `racadm getredundancymode`<br>`Redundant` |

# getsel

**Description** Displays all sensor event log entries in the DRAC.

**Synopsis**

- racadm getsel -i [-A]
- racadm getsel [-s <*start*>] [-c <*count*>] [-A] [-o] [-E] [-R] [--more]

If no arguments are specified, the entire log is displayed.

**Input**

- **-A** — Specifies output with no display headers or labels.
- **-c** — Provides the number of records to be displayed.
- **-o** — Displays each entry in the SEL in a single line.
- **-s** — Specifies the starting record used for the display.
- **-E** — Displays RAW SEL data with the other data for each entry.
- **-R** — Displays only RAW SEL data for each entry.
- **-i** — Displays the number of entries in the SEL.
- **--more** — Displays one screen at a time and prompts the user to continue (similar to the UNIX **more** command.)

**NOTE:** For CMC: the -A, -E, -o, and -R options are deprecated.

**Output**

Record: 12
Date/Time: 11/20/2011 14:19:34
Source: system
Severity: Ok
Description: C: boot completed.

**Example** `racadm getsel`

# getsensorinfo

| | |
|---|---|
| **Description** | Displays status for system sensors.<br>To use this subcommand, you must have **login user** privilege. |
| **Synopsis** | `racadm getsensorinfo` |

**Examples** :

For CMC:

```
racadm getsensorinfo

<senType> <Num> <sensorName> <status> <reading>
<units> <lc> <uc>
FanSpeed   1     Fan-1         OK      4768      rpm    2344 14500
FanSpeed   2     Fan-2         OK      4873      rpm    2344 14500
FanSpeed   3     Fan-3         OK      4832      rpm    2344 14500
FanSpeed   4     Fan-4         OK      4704      rpm    2344 14500
FanSpeed   5     Fan-5         OK      4833      rpm    2344 14500
FanSpeed   6     Fan-6         OK      4829      rpm    2344 14500
FanSpeed   7     Fan-7         OK      4719      rpm    2344 14500
FanSpeed   8     Fan-8        Not OK   1         rpm    2344 14500
FanSpeed   9     Fan-9         OK      4815      rpm    2344 14500

<senType> <Num> <sensorName> <status> <reading> <units> <lc>
<uc>
Temp        1   Ambient_Temp  OK        22      celcius  N/A  40

<senType>    <Num>    <sensorName>    <status>    <AC-OK status>

PWR    1    PS-1    Online    OK

PWR    2    PS-2    Online    OK

PWR    3    PS-3    Online    OK

PWR    4    PS-4    Slot Empty    N/A

PWR    5    PS-5    Failed    OK

PWR    6    PS-6     Slot Empty    N/A


<senType>    <Num>    <sensorName>    <status>

Cable        1          IO-Cable          OK

Cable        2          FPC-Cable         OK
```

For iDRAC:

```
Sensor Type : POWER
<Sensor Name>                    <Status>                <Type>
PS1 Status                     Present                 AC

Sensor Type : TEMPERATURE
<Sensor Name>                  <Status>      <Reading>   <lc>        <uc>
System Board Inlet Temp        Ok          22 C                -7 C        47 C
System Board Exhaust Temp      Ok          25 C                3 C         75 C
CPU1 Temp                      Unknown     NA                  NA          NA

Sensor Type : FAN
<Sensor Name>                  <Status>   <Reading>   <lc>        <uc>
System Board Fan1A RPM         Ok          6240 RPM            720 RPM     NA
System Board Fan2A RPM         Ok          6240 RPM            720 RPM     NA
System Board Fan3A RPM         Ok          6360 RPM            720 RPM     NA
System Board Fan4A RPM         Ok          6360 RPM            720 RPM     NA
System Board Fan5A RPM         Ok          6360 RPM            720 RPM     NA
System Board Fan6A RPM         Ok          6240 RPM            720 RPM     NA
System Board Fan7A RPM         Ok          4800 RPM            720 RPM     NA
System Board Fan1B RPM         Ok          5040 RPM            720 RPM     NA
System Board Fan2B RPM         Ok          5040 RPM            720 RPM     NA
System Board Fan3B RPM         Ok          5040 RPM            720 RPM     NA
System Board Fan4B RPM         Ok          5040 RPM            720 RPM     NA
System Board Fan5B RPM         Ok          5040 RPM            720 RPM     NA
```

```
System Board Fan6B RPM          Ok          5160 RPM            720 RPM     NA
System Board Fan7B RPM          Ok          3840 RPM            720 RPM     NA

Sensor Type : VOLTAGE
<Sensor Name>                   <Status>    <Reading>   <lc>        <uc>
CPU1 VCORE PG                   Ok          Good                NA          NA
System Board 3.3V PG            Ok          Good                NA          NA
System Board 5V PG              Ok          Good                NA          NA
CPU1 PLL PG                     Ok          Good                NA          NA
System Board 1.1V PG            Ok          Good                NA          NA
CPU1 M23 VDDQ PG                Ok          Good                NA          NA
CPU1 M23 VTT PG                 Ok          Good                NA          NA
System Board FETDRV PG          Ok          Good                NA          NA
CPU1 VSA PG                     Ok          Good                NA          NA
CPU1 M01 VDDQ PG                Ok          Good                NA          NA
System Board NDC PG             Ok          Good                NA          NA
CPU1 VTT PG                     Ok          Good                NA          NA
System Board 1.5V PG            Ok          Good                NA          NA
PS2 PG Fail                     Ok          Good                NA          NA
System Board PS1 PG Fail        Ok          Good                NA          NA
System Board BP1 5V PG          Ok          Good                NA          NA
CPU1 M01 VTT PG                 Ok          Good                NA          NA
PS1 Voltage 1                   Ok          0 V                 NA          NA

Sensor Type : CURRENT
<Sensor Name>                   <Status>    <Reading>   <lc>        <uc>
PS1 Current 1                   Ok          0.0 Amps            NA          NA
System Board Pwr Consumption    Ok          0 Watts             NA
1218 Watts

Sensor Type : PROCESSOR
<Sensor Name>                   <Status>    <State>             <lc>        <uc>
CPU1 Status                     Ok          Presence Detected   NA          NA
CPU2 Status                     N/A         Absent              NA          NA

Sensor Type : MEMORY
<Sensor Name>                   <Status>    <State>             <lc>        <uc>
DIMM SLOT A1                    Ok          Presence Detected   NA          NA
DIMM SLOT A2                    N/A         Absent              NA          NA
DIMM SLOT A3                    N/A         Absent              NA          NA
DIMM SLOT A4                    N/A         Absent              NA          NA
DIMM SLOT A5                    N/A         Absent              NA          NA
DIMM SLOT A6                    N/A         Absent              NA          NA
DIMM SLOT A7                    N/A         Absent              NA          NA
DIMM SLOT A8                    N/A         Absent              NA          NA
DIMM SLOT A9                    N/A         Absent              NA          NA
DIMM SLOT A10                   N/A         Absent              NA          NA
DIMM SLOT A11                   N/A         Absent              NA          NA
DIMM SLOT A12                   N/A         Absent              NA          NA
DIMM SLOT B1                    N/A         Absent              NA          NA
DIMM SLOT B2                    N/A         Absent              NA          NA
DIMM SLOT B3                    N/A         Absent              NA          NA
DIMM SLOT B4                    N/A         Absent              NA          NA
DIMM SLOT B5                    N/A         Absent              NA          NA
DIMM SLOT B6                    N/A         Absent              NA          NA
DIMM SLOT B7                    N/A         Absent              NA          NA
DIMM SLOT B8                    N/A         Absent              NA          NA
DIMM SLOT B9                    N/A         Absent              NA          NA
DIMM SLOT B10                   N/A         Absent              NA          NA
DIMM SLOT B11                   N/A         Absent              NA          NA
DIMM SLOT B12                   N/A         Absent              NA          NA

Sensor Type : BATTERY
<Sensor Name>                   <Status>    <Reading>   <lc>        <uc>
```

```
System Board CMOS Battery       Ok          Present             NA          NA

Sensor Type : PERFOMANCE
<Sensor Name>                   <Status>    <State>        <lc>      <uc>
System Board Power Optimized    Ok          Not Degraded   NA        NA

Sensor Type : INTRUSION
<Sensor Name>                   <Intrusion>    <Status>
System Board Intrusion          Closed         Power ON

Sensor Type : REDUNDANCY
<Sensor Name>                   <Status>                <Type>
System Board Fan Redundancy     Full Redundant          Fan
System Board PS Redundancy      Disabled                PSU

Sensor Type : SD CARD
<Sensor Name>                   <State>
vFlash                          Active
```

# getslotname

**Description**

Displays the name and hostname (if available) of all 16 slots, or of a specified slot (indicated by the slot number) in the chassis. Optionally, this command can be used to find if the slot name or hostname is displayed in the CMC User Interface or with the getslotname -i <*slot ID*> command. If the hostname is not available, the static slot name is used.

To use this subcommand, you must have **CMC Login User** privilege.

**Synopsis**

- racadm getslotname
- racadm getslotname -i <*slot ID*>
- racadm getslotname -h

**Input**

- None -
  Displays the slot name for all 16 slots in the chassis.
- -i <*slot ID*> - specifies the ID of the slot.
  Legal values: 1–16
- -h - Specifies whether to use the slot name or the hostname (if available).
  1=use hostnames, 0=use slotnames

**Example**

```
racadm getslotname
<Slot #> <Slot Name>      <Host name>
   1       SLOT-01
   2       Webserver01     WXP-8GRB221
   3       Webserver3      WXP-319QWEecet5
   4       SLOT-04
   5       SLOT-05
   6       SLOT-06
   7       SLOT-07
   8       SLOT-08
   9       SLOT-09
  10       SLOT-10
```

```
  11        SLOT-11
  12        SLOT-12
  13        SLOT-13
  14        SLOT-14
  15        SLOT-15
  16        SLOT-16
```

```
racadm getslotname -i 1
Webserver-1
```

# getssninfo

**Description**

Displays a list of users that are connected to iDRAC. The following information is displayed:

- Session ID
- Username
- IP address (if applicable)
- Session type (for example, serial or Telnet)
- Login date and time in MM/DD/YYYY HH:MM:SS format

**NOTE:** Based on the Session ID (SSNID) or the user name (User), the iDRAC administrator can close the respective sessions or all the sessions using the, closessn subcommand. For more information, see closessn.

**Synopsis**

```
racadm getssninfo [-A] [-u <username> | *]
```

**Input**

- **-A** - eliminates the printing of data headers.
- **-u** - The -u <*username*> user name option limits the printed output to only the detail session records for the given user name.

**Examples**

```
racadm getssninfo
```

| SSNID | Type | User | IP Address | Login Date/Time |
|---|---|---|---|---|
| 6 | GUI | root | 192.168.0.10 | 04/07/2010 12:00:34 |

```
racadm getssninfo -A
"root" "143.166.174.19" "Telnet" "NONE"
racadm getssninfo -A -u *
"root" "143.166.174.19" "Telnet" "NONE"
"bob" "143.166.174.19" "GUI" "NONE"
```

# getsvctag

**Description** Displays the service tag of the host system.

**Synopsis**

```
racadm getsvctag
```

**Input**

```
getsvctag
```

**Output**

```
Y76TP0G
```

**Example** `racadm getsvctag`

# getsysinfo

**Description** Displays information related to iDRAC, managed system, and watchdog configuration.

**NOTE:** The local racadm getsysinfo subcommand on Linux displays the PrefixLength on separate lines for IPv6 Address 2 – IPv6 Address 15 and the Link Local Address.

**NOTE:** The Hostname and OS Name fields in the **getsysinfo** output display accurate information only if **Dell OpenManage Server Administrator** is installed on the managed system. Else, these fields may be blank or inaccurate. An exception to this are VMware operating system names, which are displayed even if **Server Administrator** is not installed on the managed system.

**Synopsis**

```
racadm getsysinfo [-d] [-s] [-w] [-A] [-c] [-4]
[-6]
```

**Input**

- **-4** - Displays IPv4 settings
- **-6** - Displays IPv6 settings
- **-c** - Displays common settings
- **-d** - Displays iDRAC information
- **-s** - Displays system information
- **-w** - Displays watchdog information
- **-A** - Eliminates the printing of headers/labels

**NOTE:** If the -w option is not specified, then the other options are used as defaults.

**Output**

```
RAC Information:
RAC Date/Time           = 10/27/2009 14:38:00
Firmware Version        = 1.30
Firmware Build          = 20
Last Firmware Update    = 10/26/2009 16:55:08
Hardware Version        = 0.01
MAC Address             = 00:24:e8:2e:c5:d3


Common settings:
Register DNS RAC Name   = 1
DNS RAC Name            = eval710-08-r
Current DNS Domain      = blr.amer.dell.com
Domain Name from DHCP   = 1


IPv4 settings:
Enabled                 = 1
Current IP Address      = 10.94.20.134
Current IP Gateway      = 10.94.20.1
Current IP Netmask      = 255.255.254.0
DHCP Enabled            = 1
Current DNS Server 1    = 163.244.180.39
Current DNS Server 2    = 163.244.180.40
DNS Servers from DHCP   = 1


IPv6 settings:
Enabled                 = 1
Current IP Address 1    = ::
```

```
Current IP Gateway      = ::
Autoconfig              = 1


Link Local IP Address   = fe80::224:e8ff:fe2e:c5d3/255
Current IP Address 2    = ::
Current IP Address 3    = ::
Current IP Address 4    = ::
Current IP Address 5    = ::
Current IP Address 6    = ::
Current IP Address 7    = ::
Current IP Address 8    = ::
Current IP Address 9    = ::
Current IP Address 10   = ::
Current IP Address 11   = ::
Current IP Address 12   = ::
Current IP Address 13   = ::
Current IP Address 14   = ::
Current IP Address 15   = ::


DNS Servers from DHCPv6 = 0
Current DNS Server 1    = ::
Current DNS Server 2    = ::


System Information:
System Model        = PowerEdge R710
System BIOS Version = 1.0.4
Service Tag         = 2X2Q12S
Express Svc Code    = 39059052868
Host Name           = WIN-IHF5D2BF5SN
OS Name             = Microsoft Windows Server 2008, Enterprise x64 Edition
System Revision     = I
Power Status        = ON


Embedded NIC MAC Addresses: NIC1
Ethernet           = 00:24:e8:2e:c5:cb
      iSCSI        = 00:24:e8:2e:c5:cc
NIC2 Ethernet      = 00:24:e8:2e:c5:cd
      iSCSI        = 00:24:e8:2e:c5:ce
NIC3 Ethernet      = 00:24:e8:2e:c5:cf
      iSCSI        = 00:24:e8:2e:c5:d0
NIC4 Ethernet      = 00:24:e8:2e:c5:d1
      iSCSI        = 00:24:e8:2e:c5:d2


Watchdog Information:
Recovery Action         = None
Present countdown value = 15 seconds
Initial countdown value = 15 seconds
```

### Examples

- `racadm getsysinfo -A -s`

  `"System Information:" "PowerEdge 2900" "A08" "1.0" "EF23VQ-0023" "Hostname"`

  `"Microsoft Windows 2000 version 5.0, Build Number 2195, Service Pack 2" "ON"`

- `racadm getsysinfo -w -s`

  ```
  System Information:
  System Model            = PowerEdge 2900
  ```

```
System Revision          = I
System BIOS Version      = 0.2.3
BMC Firmware Version     = 0.17
Service Tag              = 48192
Host Name                = racdev103
OS Name                  = Microsoft Windows Server 2003
Power Status             = OFF


Watchdog Information:
Recovery Action          = None
Present countdown value  = 0 seconds
Initial countdown value  = 0 seconds
```

# gettracelog

**Description** Lists all the trace log entries in iDRAC and CMC.

**Synopsis**

- `racadm gettracelog -i [-A]`
- `racadm gettracelog [-s <start>] [-c <count>] [--more] [-A] [-o]`

**Input**

- **-i** - Displays the number of entries in iDRAC trace log.
- **--more** - Displays one screen at a time and prompts the user to continue (similar to the UNIX more command).
- **-o** - Displays each entry in a single line.
- **-c** - Specifies the number of records to display.
- **-s** - Specifies the starting record to display.
- **-A** - Does not display headers or labels.

**NOTE:** For CMC: the **-A** and **-o** options are deprecated.

**Output** The default output display shows the record number, timestamp, source, and description. The timestamp begins at midnight, January 1 and increases until the system boots. After the system boots, the system's timestamp is used.

**Example**

```
Record:      1

Date/Time:   Dec  8 08:21:30

Source:      ssnmgrd[175]

Description: root from 143.166.157.103: session timeout
sid 0be0aef4
```

# getversion

**Description** Displays the current software version, model and generation information, and whether the target device can be updated.

To use this subcommand, you must have **login user** privilege.

**Synopsis**

- racadm getversion [-b | -c] [-m <*module*>]
- racadm getversion -l [-m <*module*>] [-f <*filter*>]
- racadm getversion

**Input**

- **(none)** - Displays the version information for all targets or devices.
- **-m** <*module*> - Specifies the module or device for which you want to retrieve the version information.
  <*module*> is one of the following:
  - server-nx where *n*=1-8 ; *x* = a,b,c,d
  - cmc-n where n= 1 or 2. For example, cmc-2.
- **-c** - Displays the server's current CPLD version.
- **-b** - Displays the server's current BIOS version (default is iDRAC version).
- **-l** - Displays the firmware versions of available server components.
- **-f** <*filter*> - Filters the components. Must be used with **-l** and be one of the following values:
  - bios: BIOS
  - idrac: iDRAC
  - usc: Lifecycle Controller (Unified Server Configurator)
  - diag: 32-bit Diagnostics
  - drivers: OS Driver Package
  - nic-x: Network Interface card. See -l output for possible values of x
  - raid-x: Raid Controller. See -l output for possible values of x

**NOTE:** The -b, -c and -l options are not available for CMC modules.

**NOTE:** The **-l** option requires that the Lifecycle Controller service is enabled on the servers. For version information, see the RACADM Readme available at **dell.com/support/manuals**.

**Example**

- `racadm getversion`
- `racadm getversion -f idrac`

**Example**

```
racadm getversion -m server-15

<server>  <iDRAC version>  <model name>  <Gen>  <Updatable>
server-15   2.00(Build 10)  PowerEdgeM605 iDRAC      N
racadm getversion

<Server>      <iDRAC Version>  <Blade Type>     <Gen>           <Updatable>

server-2      1.50             PowerEdgeM600    iDRAC           Y

server-3      2.10             PowerEdgeM610    iDRAC           Y

server-4      1.50             PowerEdgeM605    iDRAC           Y

<CMC>         <CMC Version>                                     <Updatable>

cmc-1         2.10.X06.200906                                   Y
              080825


racadm getversion -c

<Server>                 <CPLD Version>             <Blade Type>

server-1                                            PowerEdgeM600
```

```
server-2                                        PowerEdgeM805

server-5                1.0.0                   PowerEdgeM710
```

```
racadm getversion -b

<Server>                <BIOS Version>          <Blade Type>

server-1                2.0.0                   PowerEdgeM605

server-2                1.1.0                   PowerEdgeM805

server-5                1.1.0                   PowerEdgeM710
```

```
racadm getversion -l -m server-1

<Server>        <Component>         <Version>           <Install Date>

server-1        BIOS                1.2.1               2010-11-22

                iDRAC               3.20                2010-11-22

                USC                 1.5.0.667           2011-02-05

                Diagnostics         5144A0              2011-02-07

                OS Drivers          6.3.0.15            2010-11-22

                Broadcom 5709       5.2.0               2011-02-02
                Emb(nic-1)

                Broadcom 5709       5.2.0               2011-02-02
                Emb(nic-1)

                Broadcom 5709       5.2.0               2011-02-02
                Emb(nic-1)

                Broadcom 5709       5.2.0               2011-02-02
                Emb(nic-1)

                PERC6 EMB (raid-2)  07.01.34.00         2011-02-02

                BIOS                0.1.7               Rollback

                BIOS                1.2.1               Reinstall

                iDRAC               3.20                Reinstall

                PERC6 Emb (raid-2)  07.01.33.00         Rollback

                PERC6 Emb (raid-2)  07.01.33.00         Reinstall
```

```
racadm getversion -l -m server-1 -f bios

<Server>        <Component>         <Version>           <Install Date>

server-1        BIOS                1.2.1               2010-11-22
```

# hwinventory

**Description**

Allows you to display or export current internal hardware inventory or shipped hardware inventory by device.

To use this subcommand, you must have **login** privilege.

This subcommand is applicable for iDRAC only.

**Synopsis**

- `racadm hwinventory`
- `racadm hwinventory NIC|FC`
- `racadm hwinventory <FQDD>`
- `racadm hwinventory export -f <filename> -u <username> -p <password> -l <CIFS or NFS share>`
- `racadm -r <idrac ip> -u <idrac username> -p <idrac password>> hwinventory export -f <filename> -u <username> -p <password> -l <CIFS or NFS share>`

**Input**

- *<FQDD >* - Specifies the FQDD of the target device.
- FQDD - NIC.Slot.1-2, CPU.Socket.1 or Disk.Virtual.0:RAID.Integrated.1.
- -f — Exported Hardware Inventory filename.
- -u — Username of the remote share to where the file must be exported. Specify user name in a domain as domain/username
- -p — Password for the remote share to where the file must be exported.
- -l — Network share location to where the Hardware Inventory must be exported.

**Examples**

To view all the NIC devices on managed server:

```
[SH7757 ~]$ racadm hwinventory NIC
NIC FQDD "NIC.Slot.5-2-1" Available
NIC FQDD "NIC.Slot.5-2-2" Available
NIC FQDD "NIC.Slot.5-2-3" Available
NIC FQDD "NIC.Slot.5-2-4" Available
NIC FQDD "NIC.Slot.5-1-1" Available
NIC FQDD "NIC.Slot.5-1-2" Available
NIC FQDD "NIC.Slot.5-1-3" Available
NIC FQDD "NIC.Slot.5-1-4" Available
```

To display the Standard hardware inventory verbose description for the FQDD NIC.Embedded.1-1-2

```
[SH7757 ~]$ racadm hwinventory NIC.Slot.5-2-2
Attributes for NIC FQDD NIC.Slot.5-2-2
Current MAC Address:                B8:AC:6F:B3:BF:13
Vendor ID:                          1077
Subvendor ID:                       1028
Device ID:                          8020
Subdevice ID:                       045f
Perm ISCSI MAC Address:
Slot Type:                          b6
Data Bus Width:                     b
Slot Length:                        4
Perm FCoE MAC Address:
PCI Bus:                            3
PCI Device:                         0
PCI Function:                       0x0001
Update Time:                        0x4d2920fe
```

```
Sync Time:                          0x0000
Product Name:                       QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:1
Permanent MAC Address:              B8:AC:6F:B3:BF:11
WWPN:                               ½.
Family Version:                     0x00
Controller BIOS Version:            0x00
EFI Version:                        0x00
Max Bandwidth:                      0x64
Min Bandwidth:                      0x00
Current Commit Index:               0x00
FCoE WWNN:                          0x00
Vendor Name:                        0x00
Ports Count:                        0x00
Number PCIE Functions Supported:    0x00
Number PCIE Functions Enabled:      0x00
Link Duplex:                        0x0
Link Speed:                         0
Auto Negotiation:                   0x0
Transmit Flow Control:              0x0
Receive Flow Control:               0x0
Media Type:                         0
Status Flag:                        0x0
Nic Mode:                           1
FCoE Offload Mode:                  0
iScsi Offload Mode:                 0
reserved:                           0x00
```

To export the inventory to a remote CIFS share:

```
racadm hwinventory export -f Myinventory.xml -u admin -p mypass
  -l //1.2.3.4/share
```

To export the inventory to a remote NFS share:

```
racadm hwinventory export -f Myinventory.xml -u admin -p mypass
  -l 1.2.3.4:/share
```

To export the inventory to local file system using local racadm:

```
racadm hwinventory export -f Myinventory.xml
```

To display the Standard hardware inventory verbose description for the FC.Slot.2–1

```
racadm hwinventory FC.Slot.2-1
PCI Vendor ID:                              1077
PCI Sub Vendor ID:                          1077
PCI Device ID:                              2532
PCI Sub Device ID:                          015c
PCI Bus:                                    67
PCI Device:                                 0
PCI Function:                               0
Vendor Name:                                Unavailable
Device Name:                                QLogic QLE2560 8Gb Fibre Channel
Adapter - 21000024FF089D8A
WWN:                                        20:00:00:24:FF:08:9D:8A
VirtWWN:                                    20:00:00:24:FF:08:9D:8A
WWPN:                                       21:00:00:24:FF:08:9D:8A
VirtWWPN:                                   21:00:00:24:FF:08:9D:8A
Chip Type:                                  ISP2532
Family Version:                             02.57.14
EFI Version:                                2.34
OS Driver Version:                          Unavailable
First FC Target WWPN:                       50:06:01:60:44:60:28:8C
First FC Target LUN:                        0
Second FC Target WWPN:                      00:00:00:00:00:00:00:00
Second FC Target LUN:                       0
```

```
Hard Zone Address:                              0
Hard Zone Enable:                               Disabled
FC Tape Enable:                                 Disabled
Loop reset Delay:                               5
Frame Payload Size :                            2048
Fabric Login Retry Count:                       0
Fabric Login Timeout:                           0
Port Login Retry Count:                         8
Port Login Timeout:                             3000
Port Down Retry Count:                          45
Port Down Timeout:                              0
Link Down Timeout:                              45000
Port Number:                                    1
Port Speed:                                     0
No capabilities found for FQDD "FC.Slot.2-1"
/admin1-> racadm hwinventory FC.Slot.3-1
PCI Vendor ID:                                  1077
PCI Sub Vendor ID:                              1077
PCI Device ID:                                  2031
PCI Sub Device ID:                              0256
PCI Bus:                                        4
PCI Device:                                     0
PCI Function:                                   0
Vendor Name:                                    QLogic
Device Name:                                    QLogic QLE2660 16Gb FC Adapter -
2001000E1E091075
WWN:                                            20:00:00:0E:1E:09:10:75
VirtWWN:                                        20:00:00:0E:1E:09:10:75
WWPN:                                           20:01:00:0E:1E:09:10:75
VirtWWPN:                                       20:01:00:0E:1E:09:10:75
Chip Type:                                      8324, Rev. 02
Family Version:                                 02.00.84
EFI Version:                                    5.30
OS Driver Version:                              9.1.10.27
First FC Target WWPN:                           00:00:00:00:00:00:00:00
First FC Target LUN:                            0
Second FC Target WWPN:                          00:00:00:00:00:00:00:00
Second FC Target LUN:                           0
Hard Zone Address:                              0
Hard Zone Enable:                               Disabled
FC Tape Enable:                                 Disabled
Loop reset Delay:                               5
Frame Payload Size :                            2048
Fabric Login Retry Count:                       0
Fabric Login Timeout:                           0
Port Login Retry Count:                         8
Port Login Timeout:                             3000
Port Down Retry Count:                          30
Port Down Timeout:                              0
Link Down Timeout:                              30000
Port Number:                                    1
Port Speed:                                     0
Max Number of IOs per connection supported:     9
Maximum number of Logins per port:              8
Maximum number of exchanges:                    9
Maximum NPIV per port:                          1
Maximum number of FC Targets supported:         8
Maximum number of outstanding commands across all connections: 9
Flex Addressing:                                Capable
UEFI:                                           Capable
FC Boot:                                        Capable
On Chip Thermal Sensor:                         Capable
Feature Licensing:                              Not Capable
```

# ifconfig

**Description**

Displays the contents of the network interface table.

To use this subcommand for CMC, you must have **Administrator privilege** and for iDRAC, you must have **Execute Diagnostic Commands** permission.

**Synopsis**

```
racadm ifconfig
```

**Example**

```
$ racadm ifconfig

eth0     Link encap:Ethernet  HWaddr 00:1D:09:FF:DA:23

              inet addr:10.35.155.136  Bcast:10.35.155.255
 Mask:255.255.255.0

              UP BROADCAST RUNNING MULTICAST  MTU:1500
Metric:1

              RX packets:2550665 errors:0 dropped:0
overruns:0
frame:0

              TX packets:0 errors:0 dropped:0 overruns:0
carrier:0

              collisions:0 txqueuelen:1000

              RX bytes:272532097 (259.9 MiB)  TX bytes:0
(0.0 B)
```

# inlettemphistory

**Description**

Exports the inlet temperature history data file. The file can be exported to a remote file share, local file system, or the management station.

Displays the average and the peak temperatures during the last hour, day, week, month, or year.

This subcommand is applicable only for iDRAC.

**Synopsis**

- `racadm inlettemphistory export –f <filename>-t <type>-u <username of the network share >-p <password for the remote share >`
- `racadm inlettemphistory get`

**Input**

Options for

`racadm inlettemphistory export`

subcommand:

- **-f** - Exports inlet temperature history filename. The maximum length of this parameter is 64 characters.

  **NOTE:** If a file with the specified filename already exists, the older file is replaced with the new history file.
- **-u** - Username of the remote share to where the file must be exported. Specify username in a domain as domain or username.
- **-p** - Password for the remote share to where the file must be exported.
- **-l** - Network share location to where the inlet temperature history must be exported. The maximum length of this parameter is 256 characters.

**NOTE:** Export to an IPv6 NFS share is not supported.

- **-t** - Specifies the file type to be exported. Valid values are **xml** and **csv**. These are case-insensitive.

**NOTE:** From firmware racadm, only export to a remote share is supported. The behavior of remote share is not defined when the path specified (-l) contains special characters.

**Example**

- Export the log to a remote CIFS share:

```
racadm inlettemphistory export -f Mylog.xml -u admin -
p mypass -l //1.2.3.4/share -t xml
```

- Export the log to local file system using Local RACADM:

```
racadm inlettemphistory export -f Mylog.xml -t xml
```

- Export the log to management station using Remote RACADM:

```
racadm -r 1.2.3.4 -u user -p pass inlettemphistory
export -f Mylog.csv -t csv
```

- View the inlet temperature history:

```
racadm inlettemphistory get

Duration Above Warning Threshold as Percentage = 0.0%
Duration Above Critical Threshold as Percentage = 0.0%

Average Temperatures
Last Hour  = 23C ( 73.4F )
Last Day   = 24C ( 75.2F )
Last Week  = 24C ( 77.0F )
Last Month = 25C ( 77.0F )
Last Year  = 23C ( 73.4F )

Peak Temperatures
Last Hour  = 23C ( 73.4F ) [At Wed, 30 May 2012
11:00:57]
Last Day   = 25C ( 77.0F ) [At Tue, 29 May 2012
15:37:23]
Last Week  = 27C ( 80.6F ) [At Fri, 25 May 2012
10:38:20]
Last Month = 29C ( 84.2F ) [At Wed, 16 May 2012
15:34:13]
Last Year  = 29C ( 84.2F ) [At Wed, 16 May 2012
15:34:13]
```

# jobqueue

**Description**

Enables you to view and delete job(s) in the current JobQueue.
This subcommand is applicable for iDRAC only.

**NOTE:** To use this subcommand you require the **Server Profile Export and Import** license.

**Synopsis**

```
racadm jobqueue view -i<jobid>
```

where valid option is -i. This specifies the jobid that is displayed.

```
racadm jobqueue delete [-i<jobid>][--all]
```

where valid options are -i and –all.

```
racadm jobqueue create <fqdd> [-r <reboot type> ] [-s
<start time> ] [-e <expiry time>]
```

**Input**

- `-i` — Specifies a JobID that can be displayed or deleted.
- `--all` — The JobIDs which are not applied will be deleted.
- `-fqdd` — Specifies a FQDD for which a job has to be created.
- `–r <reboot type>` — Specifies a reboot type.
  - `none` — No Reboot Job. This is the default value.
  - `pwrcycle` — PowerCycle.
  - `graceful` — Graceful Reboot without forced shutdown.
  - `forced` — Graceful Reboot with forced shutdown.
- `start time` — Specifies a start time for job to be scheduled in yyyymmddhhmmss format. TIME_NOW means immediate.
- `expiry time` — Specifies expiry time for the job execution in yyyymmddhhmmss format. TIME_NA means expiry time is not applicable.

**Example**

- View Jobs in the Current JobQueue:

  ```
  racadm jobqueue view
  ```

- View Jobs in the Current JobQueue and display the specific JobID

  ```
  racadm jobqueue view -i <JobID>
  ```

- Delete all possible Jobs from the Current JobQueue:

  ```
  racadm jobqueue delete --all
  ```

- Delete a specific Job from the Current JobQueue:

  ```
  racadm jobqueue delete -i <JobID>
  ```

- Create a Job for the provided FQDD and add to the job queue:

  ```
  racadm jobqueue create <fqdd> [-r <reboot type> ] [-
  s <start time> ] [-e expiry time]
  ```

  ```
  racadm jobqueue create NIC.Integrated.1-1 -r
  pwrcycle -s TIME_NOW -e 20120501100000
  ```

# krbkeytabupload

**Description**

Uploads a Kerberos keytab file.

To use this subcommand, you must have **Configure iDRAC** permission.

**Synopsis**

```
racadm krbkeytabupload [-f <filename>]
```

```
<filename> is the name of the file
including the path.
```

**Input**

**-f** — Specifies the file name of the keytab to be uploaded. If the file is not specified, the keytab file in the current directory is selected.

**Output**

Returns 0 when successful and a non–zero number when unsuccessful.

**Example**

```
racadm krbkeytabupload -f c:\keytab
\krbkeytab.tab
```

# lclog

**Description**

Allows you to export the lifecycle log history, view the lifecycle log for a particular device or category, add comment to a record in lifecycle log, and add a worknote(an entry) in the lifecycle log.

To use this subcommand, you must have **Configure iDRAC** permission.

This subcommand is applicable for iDRAC only.

**NOTE:** On Local RACADM, when you run this command, the data is exposed to RACADM as a USB partition. This may display a pop-up message.

**Synopsis**

```
racadm lclog view -i <number of records> -a <agent id>  -c
<category> -s <severity>
-b <sub-category> -q <sequence no.> -n <number of records> -
r <start timestamp> -e <end timestamp>

racadm lclog comment edit -q < sequence number > -m < Text
to be added >
```

**Input**

- `-i` — Displays the number of records present in the active log. You cannot use this option with any other option.
- `-a` — The agent ID used to filter the records. Only one agent ID is accepted. The value is case-insensitive. Valid Agent-ID values:
  - UEFI_SS_USC
  - CusOsUp
  - UEFI_Inventory
  - iDRAC
  - UEFI_DCS
  - SEL
  - RACLOG
  - DE
  - WSMAN
  - RACADM
  - iDRAC_GUI
- `-c` — The category used to filter the records. Provide multiple categories using a "," as the delimiter. The value is case-insensitive. Valid Category values:
  - System
  - Storage
  - Worknotes
  - Config
  - Updates
  - Audit
- `-b`— The subcategory used to filter the records. Provide multiple subcategories using **a** as the delimiter.
- `-q` — The sequence number from which the records must be displayed.

**NOTE:** This parameter input is an integer. If an alphanumeric input is provided, then invalid subcommand syntax error is displayed.

- `-n` — Specifies the n Number of records to be displayed. On Local RACADM, if this parameter is not specified, by default 100 logs are retrieved.
- `-r` — Displays events that have occurred after this time. The time format is yyyy-mm-dd HH:MM:SS. The time stamp must be provided within double quotes.
- `-e` — Displays events that have occurred before this time. The time format is yyyy-mm-dd HH:MM:SS. The time stamp must be provided within double quotes.
- `-f <filename>` — Specifies the file location and name where lifecycle log is exported.
- `-a <name>` — Specifies the FTP Server IP address or FQDN, user name, and password.
- `-d <path>` — Specifies the path to the file on the FTP server.
- `-l <location>` — Specifies the location of the network share or area on file system where lifecycle log is exported. Two types of network shares are supported:
  - SMB mounted path: //<*ipaddress or domain name*>/<*share_name*>/<*path_to_image*>
  - NFS mounted path: <*ipaddress*>:/<*path_to_image*>.
- `-u <user>` — Specifies the user name for accessing the FTP Server, or Domain and User Name for accessing network share location.
- `-p <password>` — Specifies the password for accessing the FTP Server or Share location.
- `-s` — The severity used to filter the records. Provide multiple severities using a "," as the delimiter. The value is case-insensitive. Valid Severity values:
  - 1. Warning
  - 2. Critical
  - 3. Info
- <*FQDD|Alias*> — Specifies the FQDD or FQDD alias of the target device.
- <*CATEGORY*> — Specifies the category of Lifecycle Log entries to view. Possible values are:
  - all
  - iDRAC
  - Inventory
  - ConfigurationService
  - JobControl
  - RemoteUpdate
  - OsDeployment
  - USC
  - Other
- `–m <Comment>` — User comment string for a record to be inserted in the Lifecycle Controller log. This should be less than 128 characters. The text should be specified with in double quotes.

  **NOTE:** HTML specific characters may appear as escaped text.
- `-m <Worknote>` — Used to add a worknote (an entry) in the Lifecycle log. This should be less than 256 characters. The text should be specified within double quotes.

  **NOTE:** HTML specific characters may appear as escaped text.

**NOTE:** To view or export the lifecycle log you need **Login to iDRAC** permission only.

**Example**

- Display the number of records present in the Lifecycle Log:
  ```
  racadm lclog view -i
  ```
- Display the records added by the iDRAC agent idrac, under the storage category and storage physical disk subcategory, with severity set to warning:
  ```
  racadm lclog view -a idrac -c storage -b pdr -s
  warning
  ```
- Display the records under storage and system categories with severities set to warning or critical:
  ```
  racadm lclog view -c storage,system -s
  warning,critical
  ```
- Display the records having severities set to warning or critical, starting from sequence number 4:
  ```
  racadm lclog view -s warning,critical -q 4
  ```
- Display 5 records starting from sequence number 20:
  ```
  racadm lclog view -q 20 -n 5
  ```
- Display all records of events that have occurred between 2011-01-02 23:33:40 and 2011-01-03 00:32:15:
  ```
  racadm lclog view -r "2011-01-02 23:33:40" -e
  "2011-01-03 00:32:15"
  ```
- Display all the available records from the active Life Cycle Log:
  ```
  racadm lclog view
  ```

  **NOTE:** If output is not returned when this command is used remotely, retry after increasing remote Racadm timeout value. For this, use the command `racadm set iDRAC.Racadm.Timeout <value>`. Alternatively, you can retrieve a few records.
- Add a comment to record number 5 in the Life Cycle Log.
  ```
  racadm lclog comment edit –q 5 –m "This is a test
  comment."
  ```
- Add a worknote to the Lifecycle Log:
  ```
  racadm lclog worknote add –m "This is a test
  worknote."
  ```

# license

**Description**

Manages hardware licenses.

This subcommand is applicable for iDRAC only.

**Synopsis**

- `racadm license view`
- `racadm license view [-c <component>]`
- `racadm license import [-f <licensefile>] -l<location> -c <component>`
- `racadm license export [-f <license file>] -e <ID> -c <component>`
- `racadm license delete -e <ID> -l <location> [-f] -c <component> -t <transaction ID>`
- `racadm license delete -t <transaction ID>`
- `racadm license delete -e <entitlement ID>`

- `racadm license delete -c <component>`
- `racadm license replace -t 1`
- `racadm license replace -u <username>-p <password> -f <license file name> -l <NFS/CIFS share> -t <transaction ID>`

**Input**

- **view** — View license information.
- **import** — Installs a new license.
- export — Exports a license file.
- delete — Deletes a license from the system.
- replace — Replaces an older license with the given license file.
- -l <*remote share location*> — Network share location from where the license file must be imported.

  If the file is on a share, then -u <*share user*> and -p <*share password*> must be used.
- -f — Filename or path to the license file
- -e <*ID*> — Specifies the entitlement ID of the license file to be exported
- -t<*ID*> — Specifies the transaction ID.
- -c<*component*> — Specifies the component name on which the license is installed.
- -o — Overides the End User License Agreement (EULA) warning and imports, replaces or deletes the license.

**NOTE:** License operations the .<licensefile> name should be less then 56 Characters.

**NOTE:** During Remote file share, SSH/telnet supports Import and Export options.

**NOTE:** Only a user with Administrator privileges can use the import, export, delete, and replace commands. You do not need Administrator privileges to use the view command.

### Examples

- View All License Information on System

```
$racadm license view

iDRAC.Embedded.1

        Status               = OK

        Device               = iDRAC.Embedded.1


        Device Description   = iDRAC

        Unique Identifier    =

                License #1

                        Status               = OK

                        Transaction ID       = 2

                        License Description  = iDRAC
Enterprise Evaluation License

                        License Type         = EVALUATION

                        Entitlement ID       = mDmiPm4dVTPFMB34r2axrNwL

                        Expiration           = 2011-11-04T22:00:00
```

- Import a new license to a specific device in a known location

```
$racadm license import -f license.xml -l //shareip/sharename
-u <share user> -p <share user password> -c idrac.embedded.1
```

- Import a license from a CIFS share to a device, in this case Embedded iDRAC:

```
 racadm license import -u admin -p passwd -f License.xml
-l //192.168.2.140/licshare -c idrac.embedded.1
```

- Import a license from NFS share to a device, in this case Embedded iDrac:

```
 racadm license import -f Licen.xml -l 192.168.2.14:/share
-c idrac.embedded.1
```

- Import a license by overriding the EULA warning:

```
racadm license import -u admin -p passwd -f License.xml
-l //192.168.2.140/licshare -c idrac.embedded.1 -o
```

- Import a license from the local filesystem using Local RACADM:

```
 racadm license import -f License.xml -c idrac.embedded.1
```

- Import a license from the local filesystem using Remote RACADM:

```
 racadm license import -f C:\Mylicdir\License.xml -c
idrac.embedded.1
```

- Export a license file.

```
racadm license export -f <filename> -l <share location>
-u <share username> -p <share password> -c iDRAC.Embedded.1
```

  Instead of -c, you can use -e <*ID*> OR -t <*ID*>

  For remote racadm, if filename is not specified, the file(s) are exported to the directory where RACADM is running.

- Export license to a NFS share using transaction ID, in this case transaction 27 :

```
racadm license export -f License.xml -l 192.168.2.140:/licshare
-t 27
```

- Export license to a CIFS share specifying the entitlement ID, in this case abcdxyz :

  ```
  racadm license export -u admin -p passwd -f License.xml
  -l //192.168.2.140/licshare -e abcdxyz
  ```

- Export license to a CIFS share specifying the FQDD. While using the -c option and exporting license(s) from a device, more than one license file may be exported. Therefore if a file name is given, an index is appended to the end of the file name such as LicenseFile0.xml, LicenseFile1.xml and so on. In this case, the device is Embedded iDrac :

  ```
  racadm license export -u root -p calvin -f LicenseFile.xml
  -l //192.168.2.140/licshare -c idrac.embedded.1
  ```

- Delete a license:

  ```
  $racadm license delete -e B9865F23455DC458
  ```

- Delete all licenses installed on a particular device:

  ```
  $racadm license delete -c idrac.embedded.1
  ```

- Delete licenses on a particular device, in this case Embedded iDRAC:

  ```
  racadm license delete -c idrac.embedded.1
  ```

- Delete license using entitlement ID, in this case xYZabcdefg:

  ```
  racadm license delete -e xYZabcdefg
  ```

- Delete license using transcation ID, in this case 2:

  ```
  racadm license delete -t 2
  ```

- Replace license on a device with a license file on an NFS share using transaction ID. In this case, transaction 27:

  ```
  racadm license replace -f License.xml -l 192.168.2.140:/licshare
  -t 27
  ```

- Replace license on a device with a license file on an CIFS share using transaction ID. In this case, transaction 27:

  ```
  racadm license replace -u admin -p passwd -f License.xml
  -l //192.168.2.140/licshare -t 27
  ```

# netstat

**Description**

Displays the routing table and the current connections.

To use this subcommand, you must have **Execute Diagnostic Commands** permission.

**Synopsis**

```
racadm netstat
```

**Input**

```
racadm netstat
```

**Output**

```
Kernel IPv6 routing table
Destination
     Next
Hop
Flags Metric Ref    Use Iface
::
1/128
   ::
    U     0      30       1 lo
fe80::200:ff:fe00:d01/128
     ::
      U     0      0        1 lo
fe80::/64
     ::
      U     256    0        0 eth1
```

```
ff00::/8
     ::
      U     256    0        0 eth1


Kernel IP routing table
Destination     Gateway
Genmask         Flags   MSS Window
irtt Iface
10.94.161.0     0.0.0.0
255.255.255.0   U         0 0
0 bond0
0.0.0.0         10.94.161.1
0.0.0.0         UG        0 0
0 bond0


Active Internet connections (w/o
servers)
Proto Recv-Q Send-Q Local
Address           Foreign
Address         State
tcp        0      0
127.0.0.1:8195
127.0.0.1:52887         ESTABLISHED
tcp        0      0
127.0.0.1:199
127.0.0.1:52174         ESTABLISHED
tcp        0      0
127.0.0.1:52175
127.0.0.1:199           ESTABLISHED
tcp        0      0
127.0.0.1:199
127.0.0.1:52175         ESTABLISHED
tcp        0      0
10.94.161.120:22
10.94.115.237:45106     ESTABLISHED
tcp        0      0
127.0.0.1:52174
127.0.0.1:199           ESTABLISHED
tcp        0      0
127.0.0.1:52887
127.0.0.1:8195          ESTABLISHED
```

# nicstatistics

**Description**

Displays the statistics for the NIC FQDD in question. FQDD maps to the NIC object keys which racadm uses while calling the Data Manager APIs NIC objects.

This subcommand is applicable for iDRAC only.

**Synopsis**

- `racadm nicstatistics`
- `racadm nicstatistics <NIC FQDD>`
- `racadm hwinventory NIC.Integrated.1-1`

**Examples**

- Displays the statistics for the NIC FQDD.

  `$racadm nicstatistics <NIC FQDD>`

- Displays the statistics for the integrated NIC.

```
$ racadm nicstatistics NIC.Integrated.1-1

Total Bytes Received:0

Total Bytes Transmitted:                    0

Total Unicast Bytes Received:               0

Total Multicast Bytes Received:             0

Total Broadcast Bytes Received:             0

Total Unicast Bytes Transmitted:            0
```

- Get the network statistics

```
$ racadm nicstatistics

NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:10

NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:11

NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:12

NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:13

NIC.Slot.5-2-1 : QLogic CNA Gigabit Ethernet-B8:AC:6F:B3:BF:14
```

# ping

**Description**

Verifies if the destination IP address is reachable from iDRAC with the current routing-table contents. A destination IP address is required. Based on the current routing-table contents, an ICMP echo packet is sent to the destination IP address.

To use this subcommand for CMC, you must have **Administrator privilege** and for iDRAC, you must have **Execute Diagnostic Commands** .

**Synopsis**

```
racadm ping <ipaddress>
```

**Input**

```
racadm ping 10.94.161.161
```

**Output**

```
PING 10.94.161.161 (10.94.161.161): 56 data bytes64 bytes
from 10.94.161.161: seq=0 ttl=64 time=4.121 ms---
10.94.161.161 ping statistics ---1 packets transmitted, 1
packets received, 0 percent packet lossround-trip min/avg/
max = 4.121/4.121/4.121 ms
```

# ping6

**Description**

Verifies if the destination IPv6 address is reachable from iDRAC or CMC, or with the current routing-table contents. A destination IPv6 address is required. Based on the current routing-table contents, an ICMP echo packet is sent to the destination IPv6 address .

To use this subcommand for CMC, you must have **Administrator privilege** and for iDRAC, you must have **Execute Diagnostic Commands** permission.

**Synopsis**

```
racadm ping6 <ipv6address>
```

**Example**

```
Pinging 2011:de11:bdc:194::31 from 2011:de11:bdc:194::101 with
32 bytes of data:
Reply from 2011:de11:bdc:194::31: time<1ms
Reply from 2011:de11:bdc:194::31: time<1ms
```

```
Reply from 2011:de11:bdc:194::31: time<1ms
Reply from 2011:de11:bdc:194::31: time<1ms

Ping statistics for 2011:de11:bdc:194::31:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

# racdump

**Description**

Provides a single command to get dump, status, and general iDRAC board information.

For CMC, this subcommand displays the comprehensive chassis status and configuration state information, as well as historic event logs. Used for post deployment configuration verification and during debugging sessions.

To use this subcommand for CMC you must have **Administrator** privilege and for iDRAC you must have **Debug** permission.

**Synopsis**

```
racadm racdump
```

**Input**

Racdump includes the following subsystems and aggregates the following RACADM commands:

- General System/RAC information - getsysinfo
- Session information - getssinfo
- Sensor information - getsensorinfo
- Switches information (IO Module) - getioinfo
- Mezzanine card information (Daughter card) - getdcinfo
- All modules information - getmodinfo
- Power budget information - getpbinfo
- KVM information - getkvminfo
- NIC information (CMC module) - getniccfg
- Redundancy information - getredundancymode
- Trace log information - gettracelog
- RAC event log - getraclog
- System event log - getsel

**Output**

The following information is displayed when the racdump subcommand is processed:

- General system/RAC information
- Coredump
- Session information
- Process information
- Firmware build information

**Example**

### Example

```
racadm racdump

================================================================================
 General System/RAC Information
================================================================================

CMC Information:
CMC Date/Time           = Wed, 28 Nov 2007 11:55:49 PM
Active CMC Version      = X08
Standby CMC Version     = N/A
Last Firmware Update    = Wed Nov 21 21:37:56 2007
Hardware Version        = 2
Current IP Address      = 10.35.155.160
Current IP Gateway      = 10.35.155.1
Current IP Netmask      = 255.255.255.0
DHCP Enabled            = 1
MAC Address             = 00:55:AB:39:10:0F
Current DNS Server 1    = 0.0.0.0
Current DNS Server 2    = 0.0.0.0
DNS Servers from DHCP   = 0
Register DNS CMC Name   = 0
DNS CMC Name            = cmc-servicetag
Current DNS Domain      =


Chassis Information:
System Model            = PowerEdgeM1000eControlPanel
System AssetTag         = 00000
Service Tag             =
Chassis Name            = Dell Rack System
Chassis Location        = [UNDEFINED]
Power Status            = ON

================================================================================
 Session Information
================================================================================

Type    User     IP Address      Login Date/Time
SSH     root     10.9.72.252     11/28/2007 23:40:53
KVM     root     169.254.31.30   11/28/2007 18:44:51



================================================================================
 Sensor Information
================================================================================

<senType> <Num> <sensorName> <status> <reading> <units> <lc>
<uc>
FanSpeed    1    Fan-1         OK      14495    rpm     7250 14500
FanSpeed    2    Fan-2         OK      14505    rpm     7250 14500
FanSpeed    3    Fan-3         OK       4839    rpm     2344 14500
FanSpeed    4    Fan-4         OK      14527    rpm     7250 14500
FanSpeed    5    Fan-5         OK      14505    rpm     7250 14500
FanSpeed    6    Fan-6         OK       4835    rpm     2344 14500
FanSpeed    7    Fan-7         OK      14521    rpm     7250 14500
FanSpeed    8    Fan-8       Not OK        1    rpm     7250 14500
FanSpeed    9    Fan-9         OK       4826    rpm     2344 14500

<senType> <Num> <sensorName> <status> <reading> <units> <lc>
<uc>
Temp        1   Ambient_Temp    OK       21     celcius  N/A  40
```

```
<senType> <Num>  <sensorName>  <status>   <AC-OK status>
PWR          1       PS-1        Online          OK
PWR          2       PS-2        Online          OK
PWR          3       PS-3        Online          OK
PWR          4       PS-4       Slot Empty       N/A
PWR          5       PS-5        Failed          OK
PWR          6       PS-6        Slot Empty      N/A
```

# racreset

**Description**

Resets iDRAC . The reset event is logged in the iDRAC log.

Resets CMC. The reset event is logged in the hardware (sel) and CMC (RAC) logs.

To use this subcommand for CMC, you must have **Chassis Administrator** privilege and for blade servers, you need the server administrator privilege. For iDRAC, you must have **Configure iDRAC** permission.

**NOTE:** When you issue a racreset subcommand, iDRAC or CMC may require up to two minutes to return to a usable state.

For CMC only:

**NOTE:** There is a 100% fan request when the command is issued against the servers.

**Synopsis**

```
racadm racreset
```

```
racadm racreset [-f]
```

For CMC only: `racadm racreset [-m <module> [-f]]`

**Input**

- **-f**— option used to force the reset.

For CMC only:

- **-m** — The values should be one of the fololllowing:
  - server-n : where n = 1 to 16
  - server-nx: where n = 1 to 8; x = a to d (lower case)

  **NOTE:** Multiple modules may be specified, such as `-m <module1> -m <module 2>`

**NOTE: -f** option is available only with **-m** option.

**Output**

```
racadm racreset
```

RAC reset operation initiated successfully. It may take up to a minute for the RAC to come online again.

**Example**

- iDRAC reset:

  ```
  racadm racreset
  ```

For CMC only:

- To reset CMC:
  ```
  racadm racreset
  ```
- To reset server 1:
  ```
  racadm racreset -m server-1
  ```
- To reset servers 1 and 3:
  ```
  racadm racreset -m server-1
  server-3
  ```
- To force reset iDRAC on servers 1 and 5:
  ```
  racadm racreset -m server-1
  server-5 -f
  ```

  **NOTE:** The command will force reset iDRAC on both the servers.

## racresetcfg

**Description**

Deletes your current iDRAC or CMC configuration and resets iDRAC or CMC to the factory default settings. After reset, the default name and password is root and calvin, respectively, and the IP address is 192.168.0.120. Only for iDRAC Enterprise on Blade servers, it is IP address plus the number of the slot the server inhabits in the chassis. If you issue racresetcfg from a network client (for example, a supported Web browser, Telnet/ssh, or remote RACADM), you must use the default IP address. The racresetcfg subcommand does not reset the **cfgDNSRacName** object.

To use this subcommand, you must have **Configure iDRAC** privilege for iDRAC and **Chassis Administrator** privilege for CMC.

**NOTE:** Certain firmware processes need to be stopped and restarted to complete the reset to defaults. iDRAC or CMC becomes unresponsive for about 30 seconds while this operation completes

For CMC only:

**NOTE:** There is a 100% fan request when the command is issued against the servers.

**Synopsis**

- ```
  racadm racresetcfg
  ```

  ```
  RAC reset operation initiated successfully. It may
  take a few\n minutes for the RAC to come online again.
  ```
- For iDRAC only:
  ```
  racadm racresetcfg -f
  ```
- For CMC only:
  ```
  racadm racresetcfg [-m <module>]
  ```

**Input**

CMC only options:

- -m <*module*> - Specifies the device to reset the configuration on <*module*>. <*module*> must be one of the following values:
  - chassis : default state if -m is not specified
  - server-n, where *n*= 1 to 16
  - server-nx, where *n*= 1 to 8; *x* = a to d (lower case)
  - kvm
  ```

iDRAC only options:

- -f — Force resetcfg. If any VFlash partition creation or formatting is in progress when this command is issued, iDRAC sends back a warning message indicating the same. You can perform a force reset using this option.

**Example**

- Reset the configuration on iDRAC:
  ```
  racadm racresetcfg
  ```
  The RAC configuration has initiated restoration to factory defaults.
  Please wait up to a minute for this process to complete before accessing the RAC again.
- Reset the KVM configuration on CMC:
  ```
  racadm racresetcfg -m kvm
  ```
  The configuration has initiated restoration to factory defaults.
- Reset blade 8 configuration from CMC:
  ```
  racadm racresetcfg -m server-8
  ```
  The RAC configuration has initiated restoration to factory defaults.
  Please wait up to a minute for this process to complete before accessing the RAC again.
- Reset when vFlash Partition creation is in progress:
  ```
  racadm racresetcfg
  ```
  A vFlash SD card partition operation is in progress. Resetting the iDRAC may corrupt the vFlash SD card. Use -f flag to force racresetcfg.

# raid

**Description** Allows you to execute commands to control RAID arrays.
To use this subcommand you must have **Configure iDRAC** permission.

**NOTE:** This command is applicable only for iDRAC.

**Synopsis** `racadm raid`

**Example**

- Monitor Health of Storage root node
  ```
  racadm raid get status
  ```
  ```
  Storage Root Node Status : Ok
  ```
  The above command retrieves the controllers keys, (FQDDs.)
- Monitor and Inventory all Controllers connected to the server
  ```
  racadm raid get controllers
  ```
  ```
  racadm raid get controllers -o
  ```
  The above command is an optimized version and displays the full controller objects along with their keys.
  ```
  racadm raid get controllers -o -p <property names separated by comma>
  ```
  The above command displays the filtered property values for all returned controller objects.

- Monitor and Inventory all batteries connected to the controller

  ```
  racadm raid get batteries --refkey <controller FQDDs
  separated by comma>
  ```

  The above command displays all battery keys connected to the controllers referred as refkeys.

  ```
  racadm raid get batteries --refkey <controller FQDD's
  separated by comma > -o
  ```

  The above command is an optimized version and displays all battery objects for the controller FQDD.

  ```
  racadm raid get batteries --refkey <controller FQDD's
  separated by comma > -o -p <property names separated by comma>
  ```

  The above command is an optimized and filtered version.

  ```
  racadm raid get batteries --refkey <controller FQDD's
  separated by comma > -o -p <property names separated by comma>
  ```

- Monitor and Inventory all virtual disks connected to the controller

  ```
  racadm raid get vdisks --refkey <controller FQDDs
  separated by comma>
  ```

  The above command displays all vdisk keys connected to the controllers being mentioned as refkeys.

  ```
  racadm raid get vdisks --refkey <controller FQDDs
  separated by comma > -o
  ```

  The above command is an optimized version and displays all vdisk objects for the controller FQDD.

  ```
  racadm raid get <controller > -pending
  ```

  ```
  Raid.Integrated.1-1
  Raid.Slot.2-1
  ```

- Monitor and Inventory all storage enclosures connected to the connector

  ```
  racadm raid get enclosures --refkey <connector FQDDs
  separated by comma>
  ```

  The above command displays all enclosure keys connected to the connectors being mentioned as refkeys.

  ```
  racadm raid get enclosures --refkey <connector FQDDs
  separated by comma > -o optimized version.
  ```

  The above command displays all enclosure objects for the connector FQDD.

  ```
  racadm raid get enclosures --refkey <connector FQDD's
  separated by comma > -o -p <property names separated by comma>
  ```

  The above command is an optimized and filtered version.

- Monitor and Inventory all Physical Disks connected to the enclosure /Backplanes

  ```
  racadm raid get pdisks --refkey <enclosure/Backplane
  FQDDs separated by comma>
  ```

  The above command displays all physical disk keys connected to the enclosures being mentioned as refkeys.

  ```
  racadm raid get pdiks --refkey <enclosure/Backplanes
  FQDDs separated by comma > -o
  ```

  The above command is an optimized version and displays all disk objects for the enclosure FQDD.

  ```
  racadm raid get pdisks --refkey <enclosure/Backplanes
  FQDDs separated by comma > -o -p <property names separated by comma>
  optimized and filtered version.
  ```

- Monitor and Inventory all Fans connected to the enclosure

  ```
  racadm raid get fans --refkey <enclosure FQDDs separated
  by comma>
  ```

The above command displays all fan keys connected to the enclosures referred as refkeys.

```
racadm raid get fans --refkey <enclosure FQDDs separated
by comma > -o optimized version.
```

The above command displays all fan objects for the enclosure FQDD.

```
racadm raid get fans --refkey <enclosure FQDDs separated
by comma > -o -p <property names separated by comma> optimized and
filtered version.
```

- Monitor and Inventory all EMMs connected to the enclosure

```
racadm raid get emms -refkeys <enclosure FQDDs separated
by comma>
```

The above command will return all EMM keys connected to the enclosures being mentioned as refkeys.

```
racadm raid get emms -refkeys <enclosure FQDDs separated
by comma > -o
```

The above command is an optimized version and displays all EMM objects for the enclosure FQDD.

```
racadm raid get emms -refkeys <enclosure FQDDs separated
by comma > -o -p <property names separated by comma>
```

The above command is an optimized and filtered version.

- Monitor and Inventory all Temperature Probes connected to the enclosure

```
racadm raid get tempprobes -refkeys <enclosure FQDDs
separated by comma>
```

The above command displays all temperature probe keys connected to the enclosures being mentioned as refkeys.

```
racadm raid get tempprobes -refkeys <enclosure FQDDs
separated by comma > -o
```

The above command is an optimized version and displays all temperature probe objects for the enclosure FQDD.

```
racadm raid get tempprobes -refkeys <enclosure FQDDs
separated by comma > -o -p <property names separated by comma>
optimized and filtered version
```

- Monitor and Inventory all Power Supply Units connected to the enclosure

```
racadm raid get psus --refkey <enclosure FQDD's separated
by comma>
```

The above command displays all power supply units connected to the enclosures being mentioned as refkeys.

```
racadm raid get psus --refkey <enclosure FQDD's separated
by comma > -o
```

The above command is an optimized version and displays all power supply units objects for the enclosure FQDD.

```
racadm raid get psus --refkey <enclosure FQDD's separated
by comma > -o -p <property names separated by comma>
```

The above command is an optimized and filtered version.

# remoteimage

| | |
|---|---|
| **Description** | Connects, disconnects, or deploys a media file on a remote server.<br>To use this subcommand, you must have **Administrator** privilege. |
| **Synopsis** | `racadm remoteimage <options>` |

**Input**

- **-c**- Connect the image.
- **-d** - Disconnect image.
- **-u** - Username to access the network share.
- **-p**- Password to access the network share.
- **-l** - Image location on the network share; use double quotes around the location.
- **-s**- Display current status; –a is assumed if not specified.

**NOTE:** It is recommended to use forward slash (/) when providing the image location. If backward slash (\) is used, override the backward slash for the command to execute successfully.

For example:

```
racadm remoteimage -c -u user -p password -l /\/
\10.94.192.100/\CommonShare/\diskette.img
```

CMC Only options:

- **-e** — Deploys a remote image. This means that the first boot device is set to the shared image and the server is set to reboot.
- **-m <module>** — Specifies the server to deploy the image to one of the following:
  - sever-n, where *n* =1–16
  - server-nx where *n* =1– 8; *x* = a,b,c,d
- **-a** — Applies options for slots for all present servers.

**Example**

- Configure a Remote image:

```
racadm remoteimage -c -u "user" -p "pass" -l //shrloc/
foo.iso
Remote Image is now Configured
```

- Disable Remote File Sharing:

```
racadm remoteimage -d
Disable Remote File Started. Please check status
using -s option to know Remote File Share is ENABLED
or DISABLED.
```

- Check Remote File Share status:

```
racadm remoteimage -s - status
Remote File Share is Enabled
UserName
Password
ShareName //10.94.161.112/xxxx/dtk_3.3_73_Linux.iso
```

- Deploy a remote image on iDRAC CIFS Share:

```
racadm remoteimage -c -u root -p calvin -l //
192.168.0.180/dev/floppy.img
```

- Deploy a remote image on iDRAC NFS Share:

```
racadm remoteimage -c –m server-1 -u root -p calvin -
l '//192.168.0.180/dev/floppy.img'
```

- Deploy a remote image to server 1 from the CMC:

```
racadm remoteimage -c –m server-1 -u root -p calvin -
l '//192.168.0.180/dev/floppy.img'
```

- Deploy a remote image on iDRAC CIFS share for all the servers:

```
racadm remoteimage -c -a -l '//192.168.0.180/dev/
floppy.img' -u root -p calvin
```

- Deploy a remote image on iDRAC NFS share for all the servers:

```
racadm remoteimage -c -a -l '192.168.0.180:/dev/
floppy.img' -u root -p calvin
```

# serveraction

**Description** Enables you to perform power management operations on the host system.

To use this subcommand, you must have **Execute Server Control Commands** permission.

**Synopsis** `racadm serveraction <action>`

**Input**

- -m <*module*> -
  server-nx where *n*=1-8 ; *x* = a,b,c,d
- -a - Performs action on all servers. Not allowed with the powerstatus action.
- -f - Force the action. Required for the reseat action.
- <*action*>- Specifies the action. The options for the <*action*> string are:
  — hardreset — Performs a reset (reboot) operation on the managed system.
  — powercycle — Issues a power-cycle operation on the managed system. This action is similar to pressing the power button on the system's front panel to power down and then power up the system.
  — powerdown — Powers down the managed system.
  — powerup — Powers up the managed system.
  — powerstatus — Displays the current power status of the server (ON or OFF).
  For CMC only:
  — graceshutdown — Performs a graceful shutdown of the server. If the operating system on the server cannot be shutdown cleanly, then this operation will not be performed.
  — reseat — Performs virtual reseat of the server. This operation simulates reseating the blade by resetting the iDRAC on that blade.

**NOTE:** The action **powerstatus** is not allowed with -a option.

**Output** Displays an error message if the requested operation fails, or a success message if the operation is completed.

**Example**

- Power Down Blade 16 from the CMC
  racadm serveraction -m server-16 powerdown
  Server power operation successful
- Power Down Blade from iDRAC
  racadm serveraction powerdown
  Server power operation successful
- Power Down Blade 16 from CMC when Power is already Off on that blade
  racadm serveraction -m server-16 powerdown
  Server is already powered OFF.
- Power Down Blade from iDRAC when Power is already off on that blade.
  racadm serveraction powerdown
  Server is already powered OFF
- Get Power Status of blade 16 on CMC
  racadm serveraction -m server-16 powerstatus
  ON

- Get Power Status on iDRAC
  racadm serveraction powerstatus
  Server Power Status: ON
- Reseat blade 2 on CMC
  $ racadm serveraction -m server-2 reseat -f
  Server power operation successful
- Explanation of Support
  iDRAC Needs to support graceful shutdown
  The support of address individual blades is expected on the CMC

# set

**Description**

Use this command to set the value of configuration objects on a device and modify the RAC object values.

This subcommand is applicable for iDRAC only.

**NOTE:** For configuration of staged objects such as BIOS or NIC, commit and reboot job creation should be used to apply the pending values. For more information, see jobqueue

**Synopsis**

- `racadm set -f  <filename> [--continue]`
- `racadm set <FQDD Alias>.<index>.<group>.<index>.<object>.<value>`
- `racadm set <FQDD Alias>.<group>.<object>.<value>`
- `racadm set <FQDD Alias>.<group>.<index>.<object>.<value>`
- `racadm set -f <filename> -t xml -u myuser -p mypass -l // 10.1.2.3`

**Input**

- <*FQDD Alias*>
- <*group*> — Specifies the group containing the object that is to be written.
- <*object*> — Specifies the object name of the value to be written.
- <*index*> — This is specified where FQDD Alias' or Groups need to be indexed.
- -f <*filename*> — This option enables set to configure the device from a file specified by <*filename*>. This option is not supported in the Firmware RACADM interface.
- --continue — This option is used with –f option only. If configuration through file fails for a group, then configuration continues with the next group in the file. If this option is not used, then configuration stops when it fails for a particular group. After the failed group, the rest of the groups are not configured.
- -u — Username of the remote share from where the file must be imported.
- -p — Password for the remote share from where the file must be imported.
- -l — Network share location from where the file must be imported.
- -t — Specifies the file type to be imported. Valid values are "xml" and "ini". These are case-insensitive. ini imports the legacy configuration file. The ini file cannot be imported from a remote share. If -t is not specified the legacy file is imported.
- -b — Specifies the shutdown type for the host after the import operation completes. The parameters are "Graceful" for graceful and "Forced" for forced shutdown. If this parameter is not specified, graceful shutdown is taken as the default.
- -w — Maximum time to wait for the graceful shut down to occur. This has to be given in seconds. Minimum accepted value is 300 seconds and the maximum accepted value is 3600 seconds. The default value is 1800 seconds.

- -s — Power state of the host when the import operation completes. The parameters are "On" for powered ON and "Off" for powered OFF. If this parameter is not specified, power ON is taken as default.

**Output**

- Object value modified successfully
- Failure message indicating reason for failure.

**Example**

- Configure the iDRAC using a file:

  ```
  $ racadm set -f myrac.cfg
  ```

- Configure LCD String:

  ```
  $ racadm set system.lcd.LCDUserString test

  Object value modified successfully
  ```

- Configure rack name for server:

  ```
  $ racadm set system.location.rack.name rack1
  ```

- Configure a RAC from an XML configuration file located on a remote CIFS share:

  ```
  $ racadm set -f myfile.xml -t xml -u myuser -p mypass -
  l //10.1.2.3/myshare
  ```

- Configure a RAC from an XML configuration file located on a remote NFS share:

  ```
  $ racadm set -f myfile.xml -t xml -l 10.1.2.3:/myshare
  ```

- Configure a RAC from an XML file, with a wait time of ten minutes, shutdown type graceful and end host type power on:

  ```
  $ racadm set -f myfile.xml -t xml -b "graceful" -w 600 -s
  "on"
  ```

# setarraycfg

**Description**

This command is applicable only for CMC. Use this command to configure storage array properties.

**Synopsis**

```
racadm setarraycfg -m module -n <member_name> <member_ip>
<member_mask> <member_gateway> -e 0|1   -g <groupname>
<group_id> <group_password> [<admin_password>] [-f A|B]

racadm setarraycfg -f <A|B>
```

**NOTE:** The valid value for `-m` is server-n, where n = 1 to 16.

**Input**

- `-m` — Module is one of the following values:
  - server-n: where n = 1 to 7 and 9 to 15
- `<member_name>` — A unique and descriptive name that is fewer than 64 alphanumeric characters, without spaces, and the first character is a letter or a number. It is used only to identify and administer the array.
- `<member_ip>` — Each member IP Network address should have at least one network interface on the same subnet as the group IP address.
- `<member_mask>` — Member Netmask combines with the member Ip address to identify the subnet on which the network interface specified resides. The default is 255.255.255.0
- `<member_gateway>` — Member Gateway network address is for the device that connects the subnet and forward the network traffic beyond the local network.

- `-e` — Enables to select existing or create new group for a member. The valid values are:
  - 0 — to create new group
  - 1 — to use existing group

  **NOTE:** If `-e` is 0, then admin password is mandatory.
- `<groupName>` — Name of the group for administrative purpose. You can use up to 64 alphanumeric characters and hyphens and the first character must be a letter or a number.
- `<group_ip>` — Group IP and Network address for the group. The group IP address is used for administrative and host access to volumes.
- `<group_password>` — Group Membership Management Password is required when adding members to the group. The password must have 3 to 16 alphanumeric characters and is case-sensitive.
- `<admin_password>` — Group Administration Password to set admin password when creating new group and will override the factory-set password. *grpadmin* is the default *grpadmin* account. The password must have 3 to 16 alphanumeric characters and is case-sensitive.
- `-f` — The valid values are *A or B*. Select Fabric to be used for data I/O. Options are:
  - Fabric A (LOM port)
  - Fabric B (Mezz port)

  The default is Fabric B. If the option is not specified, then the configuration is not done.

**Output**

*<module>* configuration was initiated successfully. It may take several minutes to complete.

**Example**

- Set member name, member ip, member netmask, member gateway with new group name, group ip, group password, admin password selecting fabric A on server-1:

```
racadm setarraycfg -m server-1 -n cmc-col
192.168.1.233 255.255.255.0 192.168.1.0 -e 0 -g cmc-
array-grp 192.168.1.10 <password>  -f A
```

- Set member name, member ip, member netmask, member gateway with existing group name, group ip, group password selecting fabric B on server-1:

```
racadm setarraycfg -m server-1 -n cmc-col
192.168.1.233 255.255.255.0 192.168.1.0 -e 1 -g cmc-
array-grp 192.168.1.10 <password> -f B
```

- Select different fabric type:

```
racadm setarraycfg -m server-3 -f A
```

# setassettag

**Description**

Sets the N-byte ASCII asset tag for the chassis.

To use this subcommand, you must have **Administrator** privilege.

**Synopsis**

```
racadm setassettag -m chassis <asset tag>
```

**Input**

**-m** *<module>* — Specifies the module whose asset tag you want to set.

Legal value: chassis

You can obtain the same output if you do not include this option, as there is only one legal value.

<*assettag*> is a maximum of 64 non-extended ASCII characters.

**Example**

- `racadm setassettag -m chassis 783839-33`
- `racadm setassettag 783839-33`

```
The asset tag was changed successfully.
```

# setchassisname

**Description**

Sets the name of the chassis in the LCD.

To use this subcommand, you must have **Administrator** privilege.

**Synopsis**

```
racadm setchassisname <name>
```

**NOTE:** Chassisname is a maximum of 64 non-extended ASCII characters.

**Example**

```
racadm setchassisname dellchassis-1

The chassis name was set successfully.
```

# setflexaddr

**Description**

Enables/disables FlexAddress on a particular slot/fabric.

To use this subcommand, you must have **Chassis Configuration Administrator** privilege.

If the fabric type is determined to be Infiniband, the operation is canceled and the command returns an error. If the FlexAddress feature is not activated, the command returns an error.

**NOTE:** The server must be powered off to change the slot state. All servers must be powered off to change the fabric state. The MAC/WWN addresses must be managed locally (not by an external console) to use this command.

**Synopsis**

```
racadm setflexaddr [-i <slot#> <state>]
[-f <fabricName> <state>]
```

<*slot#*> = 1 to 16

<*fabricName*> = A, B, C

<*state*> = 0 or 1

where **0** is disable and **1** is enable.

**Input**

- -i <*slot#*> <*state*> — Enables/disables FlexAddress for the specified slot.
- -f <*fabricName*> <*state*> — Enables/disables FlexAddress for the specified fabric.

**Example**

- `racadm setflexaddr -i 1 0`

```
Slot 1 FlexAddress state set successfully
```

- `racadm setflexaddr -f A 1`

  `Fabric A FlexAddress state set successfully`
- `racadm setflexaddr -f idrac 1`

# setled

**Description**

Sets the state (blinking or not blinking) of the LED on the specified module.

To blink or unblink the chassis, I/O modules or the CMC, you must have **Debug Administrator** privilege on CMC. To enable the servers to blink or unblink, you must have **Server Administrator** or **Debug Administrator** privilege on CMC. To use this subcommand for iDRAC, you must have **Configure iDRAC** permission.

**Synopsis**

For iDRAC:

`racadm setled -l <ledState>`

For CMC:

`racadm setled -m <module> -l <ledState>`

**Input**

- -m <*module*> - Specifies the module whose LED you want to configure.
  <*module*> can be one of the following:
  — server-nx where *n*=1-8 ; *x* = a,b,c,d
  — switch-n where n=1–6
  — cmc-active
  — chassis

This option is applicable for CMC only.

- -l <*ledstate*> - Specifies whether the LED should blink.
  <*ledstate*> can be one of the following:
  – 0 — no blinking
  – 1 — blinking

**Example**

For CMC:

- racadm setled -m server-1 -l 1
  LED state was set successfully.

**NOTE:** The setled command generates an error when used on the extension slot of a multi-slot server.

- racadm setled -m server-9 -l 1
  ERROR: Server in slot 9 is an extension of the server in slot 1.

For iDRAC:

```
racadm setled -l 1

LED state was set successfully.
```

# setniccfg

**Description**

Sets the iDRAC IP address. It displays an error message if the requested operation could not be performed, or a success message if the operation is completed successfully.

To use this subcommand, you must have **Configure iDRAC** permission.

**NOTE:** The terms NIC and Ethernet management port may be used interchangeably.

**Synopsis**

- `racadm setniccfg -d`
- `racadm setniccfg -d6`
- `racadm setniccfg -s <IPv4Address> <netmask> <IPv4 gateway>`
- `racadm setniccfg -s6 <IPv6 Address> <IPv6 Prefix Length> <IPv6 Gateway>`
- `racadm setniccfg -o`

**Input**

- -d — Enables DHCP for the NIC (default is DHCP disabled.)
- -d6 — Enables AutoConfig for the NIC. It is enabled by default.
- -s — Enables static IP settings. The IPv4 address, netmask, and gateway can be specified. Otherwise, the existing static settings are used. <*IPv4Address*>, <*netmask*>, and <*gateway*> must be typed as dot-separated strings.

  racadm setniccfg -s 192.168.0.120 255.255.255.0 192.168.0.1
- -s6 — Enables static IPv6 settings. The IPv6 address, Prefix Length, and the IPv6 Gateway can be specified.
- -o — Enable or disable NIC.

**Example**

- `racadm setniccfg -s 192.168.0.120 255.255.255.0 192.168.0.1`
- `racadm setniccfg -d`
- `racadm setniccfg -d6`

# setractime

**Description**

Sets the date and time on the CMC.

To use this subcommand, you must have **Administrator** privilege.

This command is applicable only for CMC.

**Synopsis**

- racadm setractime -d <*yyyymmddhhmmss.mmmmmmsoff*>
- racadm setractime -l YYYYMMDDhhmmss
- racadm setractime -z {?|timezone|timezone-prefix*}

**Input**

- -d — Sets the time in the string yyyymmddhhmmss.mmmmmmsoff where:

  yyyy is the year

— mm is the month

— dd is the day

— hh is the hour

— mm is the minutes

— ss is the seconds

— mmmmmm is the number of microseconds

— s is a + (plus) sign or a - (minus) sign, which indicates the sign of the offset

— off is the offset in minutes

**NOTE:** The off is the offset in minutes from GMT and must be in 15-minute increments. The timezone is represented as an offset from GMT, and the clock does not automatically adjust to daylight savings time (for '-d' option).

- -z <*zone*> - Sets the time zone by name or index, or lists possible time zones. For example, PST8PDT (Western United States), 294 (Seoul), 344 (Sydney). <*zone*> may be:

  — <*?*> lists the major timezone names/prefixes

  — <*timezone*> is the case-sensitive name of your timezone or the index listed by '-z timezone-prefix*'.

  — <*timezone-prefix**> is a prefix of one or more timezones, followed by '*'.

**NOTE:** The timezone/daylight savings time is fully supported for '-l' and '-z' options. Omit the '-l' option to set the timezone only (eg. '-z US/Central').

- -l — Sets the local date and time in the string yyymmddhhmmss where:

  — yyyy is a the year

  — mm is the month

  — dd is the day

  — hh is the hour

  — mm is the minute

  — ss is the second

  — Setting the time using the -l and -z options is recommended. This command format allows the CMC to fully support local time zones, including the ability to automatically adjust the CMC time to the local Daylight Savings Time.

**Example**

The setractime subcommand supports dates ranging from 1/1/1970 00:00:00 through 12/31/2030 23:59:59. To set the local time to October 24, 2007 at 3:02:30 PM:

```
racadm setractime -l 20071024150230

The time was set successfully.
```

# setslotname

**Description**

Displays the name and hostname (if available) of all 16 slots, or of a specified slot (indicated by the slot number) in the chassis. Optionally, this command can be used to set whether the slot name or hostname is displayed in the CMC User Interface or with the **getslotname -i <*slot ID*>** command. If the hostname is not available, the static slot name is used.

To use this subcommand, you must have **Administrator** privilege.

For rules for selecting slot names, see the "Editing Slot Names" section in the *Dell Chassis Management Controller User Guide* .

**NOTE:** The OMSA server agent must be present and running on the server to use the Display Hostname feature. If the agent is not running, the setting is ignored. For more information, see the *Dell OpenManage Server Administrator User's Guide* at **support.dell.com/manuals**.

**Synopsis**

```
racadm setslotname -i <slotID>
<slotname>

racadm setslotname -h <enabled>
```

**Input**

- <*slotID*> — Displays the location of the slot in the chassis.

  Legal values: 1–16
- <*slotname*> — The new name to be assigned to the slot.
- <*enabled*> — Sets whether the server's hostname is used for display purposes.

  Legal values: 0, 1

**Example**

```
racadm setslotname -i 3 mserver3

The slot name was set successfully.
```

# setsysinfo

**Description**

Sets the name or location of the chassis.

To use this subcommand, you must have **Administrator** privilege.

This command is applicable only for CMC.

**Synopsis**

```
racadm setsysinfo [-c chassisname|
chassislocation]
<string>
```

**Input**

- <*string*> — Indicates a maximum of 64 non-extended ASCII chassis name or location.

- **-c** — Sets the chassis name or location.

**Example**

```
racadm setsysinfo -c chassisname "Dell
Rack System"

The chassis name was set successfully.
```

# sshpkauth

**Description**

Enables you to upload and manage up to 4 different SSH public keys per user. You can upload a key file or key text, view keys, or delete keys.

This command has three mutually exclusive modes—upload, view, and delete that are determined by the options.

**Upload**

The upload mode allows you to upload a keyfile or to copy the key text on the command line. You cannot upload and copy a key at the same time.

Local and Remote RACADM:

```
racadm sshpkauth -i <2 to 16> -k <1 to
4> -f <filename>

racadm sshpkauth -i <2 to 16> -k <1 to
4> -t

<key-text>
```

Telnet/ssh/serial RACADM:

```
racadm sshpkauth -i <2 to 16> -k <1 to
4> -t

<key-text>
```

**View**

The view mode allows the user to view a key specified by the user or all keys.

```
racadm sshpkauth -i <2 to 16> -v -k <1
to 4>

racadm sshpkauth -i <2 to 16> -v -k all
```

**Delete**

The delete mode allows the user to delete a key specified by the user or all keys.

```
racadm sshpkauth -i <2 to 16> -d -k <1
to 4>

racadm sshpkauth -i <2 to 16> -d -k all
```

**Synopsis**

```
racadm sshpkauth
```

**Input**

- **-i** <*user index*> - Index for the user. <*user index*> must be between 2 to 16 on iDRAC.
- **-k** [<*key index*> | all] - Index to assign the PK key being uploaded. *all* only works with the -v or -d

options. <*key index*> must be between 1 to 4 or *all* on iDRAC.

- **-t** <*PK Key Text*> - Key text for the SSH Public key.
- **-f** <*filename*> - File containing the key text to upload. The -f option is not supported on Telnet/ssh/serial RACADM.
- **-v** - View the key text for the index provided.
- **-d** - Delete the key for the index provided.

**Examples** :

- Upload an invalid key to iDRAC User 2 in the first key space using a string:

```
$ racadm sshpkauth -i 2 -k 1 -t "This is invalid key
Text"

ERROR: Key text appears to be corrupt
```

- Upload a valid key to iDRAC User 2 in the first key space using a file:

```
$ racadm sshpkauth -i 2 -k 1 -f pkkey.key

Key file successfully uploaded.
```

- Get all keys for User 2 on iDRAC:

```
$ racadm sshpkauth -v -i 2 -k all

******************** User ID 2 ******************

Key ID 1:

ssh-rsa    AAAAB3NzaC1yc2EAAAABIwAAAIEAzzy
+k2npnKqVEXGXIzo0sbR6JgA5YNbWs3ekoxXV
               fe3yJVpVc/5zrrr7XrwKbJAJTqSw8Dg3iR4n3vUaP
+lPHmUv5Mn55Ea6LHUslAXFqXmOdlThd
               wilU2VLw/iRH1ZymUFnut8ggbPQgqV2L8bsUaMqb5PooIIvV6hy4isCNJU=
1024-bit RSA, converted from OpenSSH by xx_xx@xx.xx

Key ID 2:

Key ID 3:

Key ID 4:
```

# sslcertdownload

**Description**

Downloads an SSL certificate from iDRAC to the client's file system.

To use this subcommand, you must have **Configure iDRAC** permission.

**Synopsis**

```
racadm sslcertdownload -f <filename> -
t <type>
```

**Input**

- **-f** — Specifies the target filename on local file system to download the certificate.
- **-t** — Specifies the type of certificate to download, either the CA certificate for Directory Service or the server certificate.

  1 = server certificate

2 = CA certificate for Directory Service

3 = Custom signing certificate

**Output** — Returns 0 when successful and a nonzero number when unsuccessful.

**Example**

```
racadm sslcertdownload -t 1 -f c:\cert
\cert.txt
```

**NOTE:** This command is not supported in the firmware racadm interface as is not a file system.

# sslcertupload

**Description**

Uploads a custom SSL server or CA certificate for Directory Service from the client to iDRAC or CMC.

To use this subcommand, you must have **Configure iDRAC** permission.

For CMC only:

**NOTE:** This subcommand is only supported on the remote interface(s).

**Synopsis**

```
racadm sslcertupload -t <type> -f <filename> -p
<passphrase> [-k <key file>]
```

For CMC only:

```
racadm sslcertupload -f <filename> -t <type>
```

**Input**

- `-t` — Specifies the type of certificate to upload. The type of certificate must be:
  - 1 — server certificate (CMC only)
  - 2 — Active directory (CMC only)
  - 3 — Public Key Cryptography Standards ( PKCS ) format (iDRAC only)
  - 5 — Kerberos Keytab (CMC only)
  - 6 — Server certificate and key (CMC only)
- `-f` — Specifies the file name of the certificate to be uploaded.
- `-e` — Allows for upload of multiple certificate format types.
  - – 1 = Base64
  - – 2 = PKCS12

  The current release does not support this option.
- `-p` — Pass phrase for decrypting the PKCS12 file uploaded.
- `-k` — Filename of the private key file while using type 6. The private key is generated when the CSR is generated. If the CSR is generated on another server, then it is necessary to upload the private key with the certificate.

**Output** — The sslcertupload command returns 0 when successful and returns a nonzero number when unsuccessful.

**Example**

- Uploading a server certificate

  ```
  racadm sslcertupload -t 1 -f c:\cert\cert.txt
  ```

- Uploading a PKCS file without any passphrase:
  `racadm sslcertupload –t 3 –f <filename>`
- Uploading a PKCS file with a passphrase:
  `racadm sslcertupload –t 3 –f <filename> –p <passphrase>`

# sslcertview

**Description**

Displays the SSL server or CA certificate that exists on iDRAC.
To use this subcommand, you must have **iDRAC Login** Privilege.

**Synopsis**

`racadm sslcertview –t <type> [–A]`

**Input**

- -t - Specifies the type of certificate to view, either the CA certificate or server certificate.
  —1 = server certificate
  —2 = CA certificate for Directory Service
- **-A** — Prevents printing headers/labels.

**NOTE:** If a certificate is generated using comma ',' as one of the parameters for the Organization Name, Common Name, Location Name, or State Name, the sslcertview command will display the partial name in the respective field(s) only up to the comma. The rest of the string is not displayed.

**Output**

```
racadm sslcertview –t 1

Serial Number          00

Subject Information:

Country Code (CC)      US

State (S)              Texas

Locality (L)           Round Rock

Organization (O)       Dell Inc.

Organizational Unit    Remote Access Group
(OU)

Common Name (CN)       iDRAC Default certificate

Issuer Information:

Country Code (CC)      US

State (S)              Texas

Locality (L)           Round Rock

Organization (O)       Dell Inc.
```

```
Organizational Unit   Remote Access Group
(OU)

Common Name (CN)      iDRAC Default certificate

Common Name (CN)      iDRAC Default certificate

Valid From            Jul 8 16:21:56 2005 GMT

Valid To              Jul 7 16:21:56 2010 GMT
```

```
racadm sslcertview -t 1 -A
00
US
Texas
Round Rock
Dell Inc.
Remote Access Group
iDRAC default certificate
US
Texas
Round Rock
Dell Inc.
Remote Access Group
iDRAC default certificate
Jul 8 16:21:56 2005 GMT
Jul 7 16:21:56 2010 GMT
```

# sslcertdelete

| | |
|---|---|
| **Description** | Command to delete a custom signing certificate from iDRAC.<br>To use this subcommand, you must have **administrator** permission. |
| **Synopsis** | `racadm sslcertdelete -t <type>` |
| **Input** | `-t` — Specifies the type of certificate to delete. The type of certificate is:<br>• 3 — Custom signing certificate |
| **Output** | The following information is displayed:<br>The custom signing certificate was deleted.<br>The iDRAC will now reset and may be offline temporarily. |
| **Example** | Use remote RACADM to delete the custom signing certificate<br>`$ racadm -r 192.168.1.1 -u root -p calvin sslcertdelete -t 3` |

# sslcsrgen

**Description**

Generates and downloads a CSR file to the client's local file system. The CSR can be used for creating a custom SSL certificate that can be used for SSL transactions on iDRAC.

To use this subcommand, you must have **Configure iDRAC** permission.

**Synopsis**

```
racadm sslcsrgen [-g] [-f <filename>]

racadm sslcsrgen -s
```

**Input**

- **-g** — Generates a new CSR.
- **-s** — Returns the status of a CSR generation process (generation in progress, active, or none).
- **-f** — Specifies the filename of the location, <*filename*>, where the CSR is downloaded.

**NOTE:** If the -f option is not specified, the filename defaults to sslcsr in your current directory.

**Output**

If no options are specified, a CSR is generated and downloaded to the local file system as sslcsr by default. The -g option cannot be used with the -s option, and the -f option can only be used with the -g option.

The sslcsrgen -s subcommand returns one of the following status codes:

- CSR was generated successfully.
- CSR does not exist.

**Example**

```
racadm sslcsrgen -s

or

racadm sslcsrgen -g -f c:\csr
\csrtest.txt
```

**NOTE:** Before a CSR can be generated, the CSR fields must be configured in the RACADM cfgRacSecurity group. For example: `racadm config -g cfgRacSecurity -o cfgRacSecCsrCommonName MyCompany`

**NOTE:** In telnet/ssh console, you can only generate and not download the CSR file.

# sslkeyupload

**Description**

Uploads SSL key from the client to iDRAC.

To use this subcommand, you must have **Configure iDRAC** permission.

**Synopsis**

```
racadm sslkeyupload -t <type> -f
<filename>
```

**Input**

- **-t** — Specifies the key to upload.

1 = SSL key used to generate the server certificate

- **-f** — Specifies the file name of the SSL key to be uploaded.

**Output**

Returns 0 when successful and a nonzero number when unsuccessful.

**Example**

```
racadm sslkeyupload -t 1 -f c:
\sslkey.txt
```

# sslresetcfg

**Description**

Restores the web-server certificate to factory default and restarts web-server. The certificate takes effect 30 seconds after the command is entered.

To use this subcommand, you must have **Chassis Configuration Administrator** privilege for CMC and **Configure iDRAC** permission for iDRAC.

**Synopsis**

```
racadm sslresetcfg
```

**Example**

```
$ racadm sslresetcfg

Certificate generated successfully and
webserver restarted.
```

**NOTE:** For more information on managing SSL certificates, see the "Securing CMC Communications Using SSL and Digital Certificates" section in the *Dell Chassis Management Controller User Guide*.

# systemconfig

**Description**

Enables you to backup and restore for iDRAC configurations and firmware.

**NOTE:**

- This command is supported for iDRAC only.
- To use this subcommand you require the **Server Profile Export and Import** license.
- Backup is licensed but restore is not licensed (Enterprise).
- If Lifecycle Controller is "disabled", then the attempt to start a restore operation fails.
- If CSIOR is disabled, then the system inventory may not be current during the backup operation. An appropriate warning message is reported.

**Synopsis**

- `racadm systemconfig backup -f <filename> <target> [-n passphrase ] [-l <location> -u <user name> -p <password>] [--vFlash]`
- `racadm systemconfig restore -f <filename> <target> [-n passphrase ] [--nopreserve] [-l <location> -u <user name> -p <password>] [--vFlash]`

**Input**

- `-n` — A passphrase used to encrypt or decrypt the configuration data. This is optional.

- `-l` — Network share location, can be either CIFS or NFS.
- `-f` — Image file name.
- `-u` — Username for the remote share access.
- `-p` — Password for the remote share access.
- `--vFlash` — Choose vFlash SD as target location for Backup. <filename is not required for this target type.
- `--nopreserve` — Erase all virtual disks and configurations.

**NOTE:**

- `-l`, `-u`, and `-p` cannot be used with `--vFlash` option.
- If backup file is created in a subfolder within the CIFS shared folder, the subfolder name should be mentioned in the filename option.

**Output**

Job ID is displayed when the backup or restore is successful.

**Example**

- Backup system to CIFS share and encrypt the data:

```
racadm systemconfig backup -f image.img -l //
192.168.2.140/share -u admin -p passwd -n
encryptpasswd123
```

- Backup system to NFS share and encrypt the data:

```
racadm systemconfig backup -f image.img -l
192.168.2.140 :/share -u admin -p passwd -n
encryptpasswd123
```

- Backup system to vFlash SD:

```
racadm systemconfig backup --vFlash
```

- Restore system from vFlash SD and clear the VD configurations:

```
racadm systemconfig restore -vFlash --nopreserve
```

- Restore system from NFS share without clearing the VD configurations:

```
racadm systemconfig restore -f image.img -l
192.168.2.140:/share -u admin -p passwd
```

- Create backup file in a subfolder within the CIFS shared folder:

```
racadm systemconfig backup -f rts/Backup.img -l //
10.94.161.200/CIFSshare -u username -p password
```

# testemail

**Description**

Sends a test e-mail from iDRAC to a specified destination. Prior to executing the test e-mail command, make sure that the SMTP server is configured and the specified index in the **RACADM cfgEmailAlert** group is enabled and configured properly. See cfgEmailAlert for more information.

**Synopsis**

```
racadm testemail -i <index>
```

**Input**

-i — Specifies the index of the e-mail alert to test.

**Output**

```
Success: Test e-mail sent successfully
```

```
Failure: Unable to send test e-mail
```

**Example**

Commands for the **cfgEmailAlert** group:

- Enable the alert —

  ```
  racadm config -g cfgEmailAlert -o
  cfgEmailAlertEnable -i 1
  ```

- Set the destination e-mail address —

  ```
  racadm config -g cfgEmailAlert -o
  cfgEmailAlertAddress -i 1 user1@mycompany.com
  ```

- Set the custom message that is sent to the destination e-mail address —

  ```
  racadm config -g cfgEmailAlert -o
  cfgEmailAlertCustomMsg -i 1 "This is a test!"
  ```

- Make sure that the SMTP IP address is configured properly —

  ```
  racadm config -g cfgRemoteHosts -o
  cfgRhostsSmtpServerIpAddr 192.168.0.152
  ```

- View the current e-mail alert settings —

  ```
  racadm getconfig -g cfgEmailAlert -i <index>
  ```

  where <*index*> is a number from 1 to 4.

# testfeature

The following tables describe the **testfeature** subcommand options.

| Option | Description |
|---|---|
| **-f** <*feature*> | Specifies the feature name. **testfeature** supports the following features:<br>• ad — Tests Active Directory configuration using simple authentication (user name and password)<br>• adkrb — Tests Active Directory configuration using Kerberos authentication<br>• ldap — Tests LDAP configuration and operation (requires user name and password) |
| **-u** <*username*> | The user name specified in an appropriate format for the selected authentication method. That is, Active Directory users are specified as user_name@domain_name. |
| **-p** <*password*> | The password for the indicated user account. |
| **-d** <*bitmask*> | A bitmask (specified as a hexadecimal value) to select various diagnostic messaging levels. This option is optional.<br>**NOTE:** -d option is not supported with the remote racadm interface. |

**Subcommands**

**testfeature -f ad**

| | |
|---|---|
| **Description** | Tests Active Directory configuration using simple authentication (user name and password). Use the optional `-d` switch to obtain additional diagnostic information, as needed. |

This subcommand when executed performs the following:

- Checks command syntax.
- Verifies whether the required system resources are available.
- Validates Active Directory configuration.
- Verifies the SSL certificate and if the certificate signing request (key) exists.
- Acquires LDAP and Global Catalog Service records from DNS.
- Acquires user privileges from the Active Directory server.
- Checks the time to acquire user privileges with the allotted time to login.

**NOTE:** In the event of an error, the command displays the test that failed and all the tests performed earlier to the test that failed, including all the error messages.

**Synopsis**

```
testfeature -f ad -u <username> -p
<password>
[-d <diagnostic-message-level>]
```

**Example**

- testfeature –f ad –u user@domain –p secret
  SUCCESSFUL: User permissions are xxxxxppp
  The last three digits are the user's permissions.
- testfeature –f adkrb –u user_name@domain_name
  SUCCESSFUL: User permissions are 80000fff
- testfeature -f ldap -u harold -p barrel
  SUCCESSFUL: User permissions are 0x00000fff

### testfeature -f adkrb

**Description**

Tests the Active Directory configuration using Kerberos authentication (single sign-on or Smart Card login). Use the optional **-d** switch to obtain additional diagnostic information, as needed. This subcommand when executed performs the following:

- Checks command syntax.
- Verifies if the required system resources are available.
- Validates Active Directory configuration.
- Verifies if the SSL certificate and certificate signing request (key) exists.
- Acquires LDAP and Global Catalog Service records from DNS.
- Verifies if the CMC can acquire CMC, LDAP and Global Catalog servers FQDN through reverse IP lookups.
- Verifies that the CMC principal name matches the principal name in the uploaded Keytab file.

- Verifies that the CMC acquires a Kerberos TGT.
- Acquires user privileges from the Active Directory server.
- Checks the time to acquire user privileges with the allotted time to login.

**NOTE:** In the event of an error, the command outputs all tests performed up to and including the test that failed, as well as all error messages.

**Synopsis**

```
testfeature -f adkrb -u <username> [-d
<diagnostic-message-level>]
```

**testfeature -f ldap**

**Description**

Tests LDAP configuration and operation, and reports success as each stage of the authentication process proceeds. On successful completion, this command prints the CMC privileges assumed by the specified <*username*>.

If a failure occurs, the command terminates with an error message that displays the required corrective action. Use the optional **-d** switch to obtain additional diagnostic information, as needed.

**Synopsis**

```
testfeature -f ldap -u <username> -p
<password>
[-d <diagnostic-message-level>]
```

# testtrap

**Description**

Tests the RAC's SNMP trap alerting feature by sending a test trap from iDRAC to a specified destination trap listener on the network.

To use this subcommand, you must have **Test Alerts** permission.

**NOTE:** For iDRAC only, before you execute the **testtrap** subcommand, make sure that the specified index in the **RACADM cfgIpmiPet** group is configured properly. The **cfgIpmiPet** group is applicable only for iDRAC.

**NOTE:** For CMC only, before you execute the **testtrap** subcommand, make sure that the specified index in the **RACADM cfgAlerting** group is configured properly. The **cfgAlerting** group is applicable only for CMC.

**Synopsis**

```
racadm testtrap -i <index>
```

**Input**

**-i** — Specifies the index of the trap configuration to be used for the test. Valid values are from 1 to 4.

**Example**

```
Commands for the cfgIpmiPet group:
```

- Enable the alert

  ```
  racadm config -g cfgIpmiPet -o cfgIpmiPetAlertEnable -
  i 1
  ```

- Set the destination e-mail IP address

  ```
  racadm config -g cfgIpmiPet -o
  cfgIpmiPetAlertDestIpAddr -i 1 192.168.0.110
  ```

- View the current test trap settings
  ```
  racadm getconfig -g cfgIpmiPet -i <index>
  ```
  where <*index*> is a number from 1 to 4

# testalert

**Description**

Tests FQDN supported SNMP trap notifications.

To use this subcommand, you must have **Test Alert User Access** .

This subcommand is applicable only for iDRAC.

**Synopsis**

```
racadm testalert -i <index>
```

**Input**

-i — Specifies the index of the trap test. *index* must be an integer from 1 to 8 on iDRAC.

**Output**

```
Success: Test trap sent successfully
```

```
Failure: Unable to send test trap
```

**Example**

- Test a trap with index as 1
  ```
  racadm testalert -i 1
  ```
  ```
  Test trap sent successfully.
  ```
- Test a trap that has not been configured yet
  ```
  racadm testalert -i 2
  ```
  ```
  ERROR: Trap at specified index is not currently
  enabled.
  ```

# traceroute

**Description**

Traces the network path of routers that the packets take as they are forwarded from your system to a destination IPv4 address.

To use this subcommand for CMC, you must have **Administrator privilege** and for iDRAC, you must have **Execute Diagnostic Commands** permission.

**Synopsis**

```
racadm traceroute <IPv4 address>
```

```
racadm traceroute 192.168.0.1
```

**Input**

```
racadm traceroute 192.168.0.1
```

**Output**

```
traceroute to 192.168.0.1 (192.168.0.1), 30 hops
max,
```

```
40 byte packets
```

```
1 192.168.0.1 (192.168.0.1) 0.801 ms 0.246 ms 0.253 ms
```

# traceroute6

**Description**

Traces the network path of routers that the packets take as they are forwarded from your system to a destination IPv6 address.

To use this subcommand for CMC, you must have **Administrator privilege** and for iDRAC, you must have **Execute Diagnostic Commands** permission.

**Synopsis**

```
racadm traceroute6 <IPv6 address>

racadm traceroute fd01::1
```

**Output**

```
traceroute to fd01::1 (fd01::1) from fd01::3,
30 hops

max, 16 byte packets

1 fd01::1 (fd01::1) 14.324 ms 0.26 ms 0.244 ms
```

# update

**Description**

Allows you to update the platforms for devices on the servers. The supported firmware image file types are:

- **.exe** — Windows based Dell Update Package (DUP)
- **.d7**
- **.usc**
- **.pm**

**Synopsis**

```
racadm update -f <updatefile>

racadm update -f <updatefile> -l <Remote CIFS Share>

racadm update -f <updatefile> -l <Remote NFS Share>
```

**Input**

- **-f** — Update filename for Windows DUP, .d7, .usc .PM only.
- **-u**— User name of the remote share that stores the Update file. Specify user name in a domain as domain/username.
- **-p** — Password of the remote share that stores the Update file.
- **-l** — Network share location that stores the Update file.

**Output**

Firmware update job for <filename> is initiated.

This firmware update job may take several minutes to complete depending on the component or firmware being updated. To view the progress of the job, use the "racadm jobqueue view" command."

**Example**

- Upload the Update file from a remote CIFS share:
  ```
  racadm update -f <updatefile> -u admin -p mypass -
  l //1.2.3.4/share
  ```
- Upload the Update file from a remote NFS share:
  ```
  racadm update -f <updatefile> -l //1.2.3.4/share
  ```
- Upload the Update file from the local file system using local racadm:
  ```
  racadm update -f <updatefile>
  ```

# usercertupload

**Description**

Uploads a user certificate or a user CA certificate from the client to iDRAC.

To use this subcommand, you must have **Configure iDRAC** permission.

This option is applicable only to iDRAC.

**Synopsis**

```
racadm usercertupload -t <type> [-f
<filename>]
-i <index>
```

**Input**

- **-t** — Specifies the type of certificate to upload, either the CA certificate or server certificate.
  — 1 = user certificate
  — 2 = user CA certificate
- **-f** - Specifies the file name of the certificate to be uploaded. If the file is not specified, the sslcert file in the current directory is selected.
- **-i** - Index number of the user. Valid values 1-16.

**Output**

Returns 0 when successful and a nonzero number when unsuccessful.

**Example**

```
racadm usercertupload -t 1 -f c:\cert
\cert.txt
-i 6
```

# usercertview

**Description**

Displays the user certificate or user CA certificate that exists on iDRAC.

This option is applicable only to iDRAC

**Synopsis**

```
racadm usercertview -t <type> [-A] -i
<index>
```

**Input**

- **-t** — Specifies the type of certificate to view, either the user certificate or the user CA certificate.
  — 1 = user certificate
  — 2 = user CA certificate
- **-A** — Prevents printing headers/labels.
- **-I** — Index number of the user. Valid values are 1-16.

# vflashsd

**Description**

Allows you to initialize or get the status of the vFlash SD card. The initialize operation removes all existing partitions and resets the card. The status operation displays the status of the last operation performed on the card.

To use this subcommand, you must have **Access Virtual Media** privilege. This option is applicable only to iDRAC.

**Synopsis**

- `racadm vflashsd initialize`

- `racadm vflashsd status`

# vflashpartition

**Description**

Manages the partitions on the vFlash SD card.

**NOTE:** To use this subcommand, you must have the iDRAC7 Enterprise license.

**Synopsis**

```
racadm vflashpartition <create | delete | status | list> -
i<index> -o<label> -e<emulation type> -s<size> -f<format
type> -t<partition type> -l<path> -u<user> -p<password> -a
```

**Input**

- `-o` — Label that is displayed when the partition is mounted on the operating system. This option must be a string up to six alphanumeric characters. VFLASH is the only accepted volume label for non Dell SD card.
- `-e` — Emulation type must be either floppy, cddvd, or hdd.
- `-s` — Partition size in MB.
- `-f` — Format type for the partition based on the type of the file system. Valid options are raw, ext2, ext3, fat16, and fat32.
- `-t` — Create a partition of the following type:
  - empty — create an empty partition
  - image — create a partition using an image relative to iDRAC.
- `-l` — Specifies the remote path relative to iDRAC.
- `-u` — User name for accessing the remote image.
- `-p` — Password for accessing the remote image.
- `-a` — Display the status of operations on all existing partitions.

**Example**

- Create a 20MB empty partition:

  ```
  racadm vflashpartition create -i 1 -o Drive1 -e hdd
  -t empty -f fat16 -s 20
  ```

- Create a partition from a remote image:

  ```
  racadm vflashpartition create -i 1 -o Drive1 -e
  cddvd -t image -l
  //ipaddress/sharefolder/isoimge.iso -u username -p
  password
  ```

  A new partition is created. By default, the created partition is read-only. This command is case sensitive for the image file name extension. If the file name extension is in upper case, for example FOO.ISO instead of FOO.iso, then the command returns a syntax error.

  **NOTE:**
  - This feature is not supported in local RACADM.
  - Creating vFlash partition from an image file located on the CFS or NFS IPv6 enabled network share is not supported.

- Delete a partition:

  ```
  racadm vflashpartition delete -i 1
  ```

- Status of operation on partition 1:

  ```
  racadm vflashpartition status -i 1
  ```

- Status of all existing partitions:
  ```
  racadm vflashpartition status -a
  ```
- List all the existing partitions and its properties:
  ```
  racadm vflashpartition list
  ```

# vmdisconnect

| | |
|---|---|
| **Description** | Allows you to disconnect another Virtual Media session. Once disconnected, the Web-based interface reflects the correct connection status.<br>Enables an iDRAC user to disconnect all active Virtual Media sessions. The active Virtual Media sessions can be displayed in iDRAC Web-based interface or by using the RACADM subcommands such as **remoteimage** or **getssninfo**.<br>This option is applicable only to iDRAC.<br>To use this subcommand, you must have **Access Virtual Media** permission. |
| **Synopsis** | `racadm vmdisconnect` |

# 3

# iDRAC and CMC Property Database Group and Object Descriptions

The iDRAC and CMC property database contains the configuration information for iDRAC and CMC. Data is organized by associated object, and objects are organized by object group. The IDs for the groups and objects that the property database supports are listed in this section for iDRAC Enterprise on Blade Servers, iDRAC Enterprise or Express on Rack and Tower Servers and CMC.

Use the group and object IDs with the RACADM subcommands to configure iDRAC and CMC.

**NOTE:** You can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

**NOTE:** Racadm sets the value of objects without performing any functional validation on them. For example, RACADM allows you to set the Certificate Validation object to 1 with the Active Directory object set to 0, even though Certificate Validation can happen only if Active Directory is enabled. Similarly, the **cfgADSSOEnable** object can be set to 0 or 1 even if the **cfgADEnable** object is 0, but it takes effect only if Active Directory is enabled.

All string values are limited to displayable ASCII characters, except where otherwise noted.

## Displayable Characters

Displayable characters include the following set:

```
abcdefghijklmnopqrstuvwxwz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
0123456789~`!@#$%^&*()_+-={}[]|\:";'<>,.?/
```

The following table provides an overview of the object groups applicable for iDRAC Enterprise on Blade Servers, iDRAC on Rack and Tower Servers, and CMC.

| Subcommand | iDRAC on Blade Servers | iDRAC on Rack and Tower Servers | CMC |
|---|---|---|---|
| idRacInfo | Yes | Yes | Yes |
| cfgLanNetworking | Yes | Yes | Yes |
| cfgRemoteHosts | Yes | Yes | Yes |
| cfgUserAdmin | Yes | Yes | Yes |
| cfgEmailAlert | Yes | Yes | Yes |
| cfgSessionManagement | Yes | Yes | Yes |
| cfgSerial | Yes | Yes | Yes |
| cfgOobSnmp | Yes | Yes | Yes |
| cfgTraps | No | No | Yes |
| cfgRacTuning | Yes | Yes | Yes |

| Subcommand | iDRAC on Blade Servers | iDRAC on Rack and Tower Servers | CMC |
|---|---|---|---|
| ifcRacManagedNodeOs | Yes | Yes | No |
| cfgRacSecurity | No | No | Yes |
| cfgRacVirtual | Yes | Yes | No |
| cfgServerInfo | No | Yes | Yes |
| cfgActiveDirectory | Yes | Yes | Yes |
| cfgLDAP | Yes | Yes | Yes |
| cfgLdapRoleGroup | Yes | Yes | Yes |
| cfgStandardSchema | Yes | Yes | Yes |
| cfgChassisPower | No | No | Yes |
| cfgIpmiSol | Yes | Yes | No |
| cfgIpmiLan | Yes | Yes | No |
| cfgIpmiPetIpv6 | Yes | Yes | No |
| cfgIpmiPef | Yes | Yes | No |
| cfgIpmiPet | Yes | Yes | No |
| cfgUserDomain | Yes | Yes | No |
| cfgServerPower | Yes | Yes | No |
| cfgKVMInfo | No | No | Yes |
| cfgAlerting | No | No | Yes |
| cfgServerPowerSupply | No | Yes | No |
| cfgIPv6LanNetworking | Yes | Yes | Yes |
| cfgCurrentLanNetworking Read Only | No | No | Yes |
| cfgCurrentIPv6LanNetworking Read Only | No | No | Yes |
| cfgIPv6URL | Yes | Yes | No |
| cfgIpmiSerial | No | Yes | No |
| cfgSmartCard | Yes | Yes | No |
| cfgNetTuning | No | Yes | Yes |
| cfgSensorRedundancy | No | Yes | No |
| cfgVFlashSD | Yes | Yes | No |
| cfgVFlashPartition | Yes | Yes | No |
| cfgLogging | Yes | Yes | No |

# idRacInfo

This group contains display parameters to provide information about the specifics of iDRAC or CMC being queried. One instance of the group is allowed.

For CMC, use this object with the getconfig subcommand.

To use this object for CMC, you must have **CMC Login User** privilege.

The following sections provide information about the objects in the **idRACInfo** group.

## idRacProductInfo (Read Only)

| | |
|---|---|
| **Description** | A text string that identifies the product. |
| **Legal Values** | A string of up to 63 ASCII characters. |
| **Default for iDRAC** | Integrated Dell Remote Access Controller. |
| **Default for CMC** | Chassis Management Controller. |

## idRacDescriptionInfo (Read Only)

| | |
|---|---|
| **Description** | A text description of the RAC type. |
| **Legal Values** | A string of up to 255 ASCII characters. |
| **Default** | This system component provides a complete set of remote management functions for Dell PowerEdge servers. |

## idRacVersionInfo (Read Only)

| | |
|---|---|
| **Description** | String containing the current product firmware version. |
| **Legal Values** | A string of up to 63 ASCII characters. |
| **Default** | The current version number. |

## idRacBuildInfo (Read Only)

| | |
|---|---|
| **Description** | String containing the current RAC firmware build version. |
| **Legal Values** | A string of up to 16 ASCII characters. |
| **Default for iDRAC** | The current iDRAC firmware build version. |
| **Default for CMC** | The current CMC firmware build version. |

## idRacName (Read Only)

| | |
|---|---|
| Description | A user-assigned name to identify this controller. |
| Legal Values | A string of up to 15 ASCII characters. |
| Default for iDRAC | iDRAC |

| | |
|---|---|
| Default for CMC | CMC |

### iDRAC Type (Read Only)

| | |
|---|---|
| **Description** | Identifies the remote access controller type. |
| **Legal Values** | Product ID |
| **Default** | For CMC: 9<br>For 10G iDRAC: 8<br>For 11G iDRAC6 on Rack and Servers: 10<br>For 11G iDRAC6 Enterprise on Blade Servers: 11<br>For 12G iDRAC7 on Rack and Servers: 16<br>For 12G iDRAC7 Enterprise on Blade Servers: 17 |

**Example**

```
racadm getconfig -g idRacInfo

# idRacType=8
# idRacProductInfo=Chassis Management Controller
# idRacDescriptionInfo=This system component provides a complete
set of remote management functions for blade servers
# idRacVersionInfo=P21
# idRacBuildInfo=200708301525
# idRacName=CMC-1

racadm getconfig -g idRacInfo

# idRacType=16
# idRacProductInfo=Integrated Dell Remote Access Controller
# idRacDescriptionInfo=This system component provides a complete set of remote
management functions for Dell PowerEdge Servers
# idRacVersionInfo=1.06.06
# idRacBuildInfo=15
# idRacName=idrac-GSRS3V1
```

# cfgLanNetworking

This group contains parameters to configure iDRAC or CMC NIC for IPv4.

One instance of the group is allowed. Some objects in this group may require iDRAC NIC to be reset, which may cause a brief loss in connectivity. Objects that change iDRAC NIC IP address settings close all active user sessions and require users to reconnect using the updated IP address settings.

For CMC, use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the -o option.

**NOTE:** For any network property changes on iDRAC to be successfully executed through RACADM, you must first enable iDRAC NIC.

The following sections provide information about the objects in the **cfgLanNetworking** group.

## cfgNicIPv4Enable (Read or Write)

| | |
|---|---|
| **Description** | Enables or disables iDRAC or CMC IPv4 stack. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

## cfgNicSelection (Read or Write)

| | |
|---|---|
| **Description** | Specifies the current mode of operation for the RAC network interface controller (NIC). The table below describes the supported modes.<br>This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC. |
| **Legal Values** | • 1 = Dedicated<br>• 2 = LOM1<br>• 3 = LOM2<br>• 4 = LOM3<br>• 5 = LOM4 |
| **Default** | • LOM1 with no failover for iDRAC Express<br>• Dedicated for iDRAC Enterprise |

The following table lists the supported **cfgNicSelection** modes:

| Mode | Description |
|---|---|
| Shared | Used if the host server integrated NIC is shared with the RAC on the host server. This mode enables configurations to use the same IP address on the host server and the RAC for common accessibility on the network. |
| Shared with Failover LOM 2 | Enables teaming capabilities between host server LOM2 integrated network interface controllers. |
| Dedicated | Specifies that the RAC NIC is used as the dedicated NIC for remote accessibility. |
| Shared with Failover All LOMs | Enables teaming capabilities between all LOMs on the host server integrated network interface controllers.<br>The remote access device network interface is fully functional when the host operating system is configured for NIC teaming. The remote access device receives data through NIC 1 and NIC 2, but transmits data only through NIC 1.<br>Failover occurs from NIC 2 to NIC 3 and then to NIC 4. If NIC 4 fails, the remote access device fails over all data transmission back to NIC 1, but only if the original NIC 1 failure has been corrected. |

## cfgNicVLanEnable (Read or Write)

| | |
|---|---|
| **Description** | Enables or disables the VLAN capabilities of the RAC/ BMC. |

**NOTE:** For iDRAC Enterprise on Blade Servers, this object enables or disables the VLAN capabilities of iDRAC from CMC.

This is Read only for iDRAC on Blade servers.

iDRAC displays only the current VLAN settings and you cannot modify the settings from iDRAC.

All chassis management traffic, including the CMC and all iDRACs, resides on this external VLAN when enabled. No iDRAC configuration change is required to use this external management network VLAN.

**Legal Values**

- 1 (TRUE)
- 0 (FALSE)

**Default** 0

**Example**

```
racadm config -g cfgLanNetworking -o
cfgNicVLanEnable
1

racadm config -g cfgLanNetworking -o
cfgNicVLanEnable
0
```

## cfgNicVLanId (Read or Write)

**Description** Specifies the VLAN ID for the network VLAN configuration (in CMC for iDRAC Enterprise on Blade Servers). This property is only valid if **cfgNicVLanEnable** is set to **1** (enabled).

This is Read only for iDRAC on Blade servers.

**Legal Values** 1 – 4000 and 4021 – 4094

**Default** 1

**Example**

```
racadm config -g cfgLanNetworking -o
cfgNicVlanID
1
```

## cfgNicVLanPriority (Read/Write)

**Description** Specifies the VLAN Priority for the network VLAN configuration (in CMC for iDRAC Enterprise on Blade Servers). This property is only valid if **cfgNicVLanEnable** is set to 1 (enabled).

This is Read only for iDRAC on Blade servers.

**Legal Values** 0 - 7

**Default** 0

**Example**

```
racadm config -g cfgLanNetworking -o

cfgNicVLanPriority 7
```

## cfgDNSDomainNameFromDHCP (Read/Write)

| | |
|---|---|
| **Description** | Specifies that iDRAC or CMC DNS domain name should be assigned from the network DHCP server. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

For CMC, this property is used only if cfgNicUseDhcp is set to 1 (true), or if both **cfgIPv6Enable** and **cfgIPv6AutoConfig** are set to 1 (true).

The CMC can obtain its DNS domain name from either a DHCP or DHCPv6 server, if all of the following properties are set to 1 (true):

- cfgNicIPv4Enable
- cfgNicUseDhcp
- cfgIPv6Enable
- cfgIPv6AutoConfig
- cfgDNSDomainNameFromDHCP
- cfgDNSDomainName (Read/Write)

The network administrator must make sure that these DHCP servers are configured to provide the same DNS domain name to the CMC, otherwise the domain name becomes unpredictable.

## cfgDNSDomainName (Read/Write)

| | |
|---|---|
| **Description** | This is the DNS domain name. This parameter is only valid if **cfgDNSDomainNameFromDHCP** is set to 0 (FALSE). |
| **Legal Values** | A string of up to 254 ASCII characters. At least one of the characters must be alphabetic. Characters are restricted to alphanumeric, '-', and '.'.<br>**NOTE:** Microsoft Active Directory only supports Fully Qualified Domain Names (FQDN) of 64 bytes or fewer. |
| **Default** | *<blank>* |

## cfgDNSRacName (Read/Write)

| | |
|---|---|
| **Description** | Displays the iDRAC or CMC name, which is rac-service tag by default. This parameter is only valid if **cfgDNSRegisterRac** is set to 1 (TRUE). |
| **Legal Values** | A string of up to 63 ASCII characters. At least one character must be alphabetic.<br>**NOTE:** Some DNS servers only register names of 31 characters or fewer. |

| | |
|---|---|
| **Default** | For iDRAC: idrac-<*service tag*><br>For CMC: cmc-<*service tag*> |

## cfgDNSRegisterRac (Read/Write)

| | |
|---|---|
| **Description** | Registers the iDRAC or CMC name on the DNS server. When you set this parameter, the CMC registers its DNS name for its IPv4 and IPv6 addresses with the DNS server. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

**NOTE:** For IPv6, only the DHCPv6 address or static address is registered.

**Example:**

```
racadm getconfig -g cfgLanNetworking
cfgNicEnable=1
cfgNicIPv4Enable=1
cfgNicIpAddress=192.168.22.101
cfgNicNetmask=255.255.255.0
cfgNicGateway=192.168.22.101
cfgNicUseDhcp=1
# cfgNicMacAddress=00:00:00:00:00:01
cfgNicVLanEnable=0
cfgNicVLanID=1
cfgNicVLanPriority=0
cfgDNSServersFromDHCP=1
cfgDNSServer1=192.168.0.5
cfgDNSServer2=192.168.0.6
cfgDNSRacName=cmc-frankly
cfgDNSDomainName=fwad.lab
cfgDNSDomainNameFromDHCP=1
cfgDNSRegisterRac=1
```

## cfgDNSServersFromDHCP (Read/Write)

| | |
|---|---|
| **Description** | Specifies if the DNS server IPv4 addresses should be assigned from the DHCP server on the network.<br>For CMC, this property is used only if **cfgNicUseDhcp** is set to 1 (true). |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

## cfgDNSServer1 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the IPv4 address for DNS server 1. This property is only valid if **cfgDNSServersFromDHCP** is set to **0** (FALSE).<br>**NOTE:** cfgDNSServer1 and cfgDNSServer2 may be set to identical values while swapping addresses. |
| **Legal Values** | String representing a valid IPv4 address. For example: 192.168.0.20. |
| **Default** | 0.0.0.0 |

## cfgDNSServer2 (Read/Write)

| | |
|---|---|
| **Description** | Retrieves the IPv4 address for DNS server 2. This parameter is only valid if **cfgDNSServersFromDHCP** is set to 0 (FALSE).<br>**NOTE:** cfgDNSServer1 and cfgDNSServer2 may be set to identical values while swapping addresses. |
| **Legal Values** | String representing a valid IPv4 address. For example: 192.168.0.20. |
| **Default** | 0.0.0.0 |

## cfgNicEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables iDRAC or CMC network interface controller. If the NIC is disabled, the remote network interfaces to iDRAC or CMC are no longer accessible and iDRAC or CMC are only available through the local or serial RACADM interface. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

## cfgNicIpAddress (Read/Write)

| | |
|---|---|
| **Description** | Specifies the static IPv4 address to be assigned to the RAC or CMC.<br>**NOTE:** This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0(FALSE.) |
| **Legal Values** | String representing a valid IPv4 address. For example: 192.168.0.20. |
| **Default** | • For iDRAC on Rack and Tower Servers: 192.168.0.120<br>• For iDRAC Enterprise on Blade Servers: 192.168.0.*n,* where *n* is 120 plus the server slot number.<br>• For CMC: 192.168.0.120 |

## cfgNicNetmask (Read/Write)

| | |
|---|---|
| **Description** | The subnet mask used for iDRAC or CMC IP address.<br>This property is only valid if **cfgNicUseDhcp** is set to 0 (FALSE).<br>**NOTE:** This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0 (FALSE). |
| **Legal Values** | String representing a valid subnet mask. For example: 255.255.255.0. |
| **Default** | 255.255.255.0 |

## cfgNicGateway (Read/Write)

| | |
|---|---|
| **Description** | iDRAC or CMC gateway IPv4 address.<br>The gateway IPv4 address used for static assignment of the RAC IP address. This property is only valid if **cfgNicUseDhcp** is set to 0 (FALSE).<br>**NOTE:** This parameter is only configurable if the **cfgNicUseDhcp** parameter is set to 0 (FALSE). |
| **Legal Values** | String representing a valid gateway IPv4 address. For example: 192.168.0.1. |
| **Default** | 192.168.0.1 |

### cfgNicUseDhcp (Read/Write)

| | |
|---|---|
| **Description** | Specifies whether DHCP is used to assign the iDRAC or CMC IPv4 address. If this property is set to 1 (TRUE), then iDRAC or CMC IPv4 address, subnet mask, and gateway are assigned from the DHCP server on the network. If this property is set to **0** (FALSE), the user can configure the **cfgNicIpAddress**, **cfgNicNetmask**, and **cfgNicGateway** properties. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

### cfgNicMacAddress (Read Only)

| | |
|---|---|
| **Description** | The iDRAC or CMC NIC MAC address in the format: dd:dd:dd:dd:dd:dd, where d is a hexadecimal digit in range 0 - 9, A - F |
| **Legal Values** | String representing iDRAC or CMC NIC MAC address. |
| **Default** | The current MAC address of iDRAC or CMC NIC. For example, 00:12:67:52:51:A3. |

## cfgStaticLanNetworking

This group contains parameters to configure the device NIC for IPv4.

**NOTE:**

- This is supported for iDRAC only.
- A few objects in this group may require the device NIC to be reset, that may cause a brief loss in connectivity.

### cfgNicStaticEnable (Read or Write)

| | |
|---|---|
| **Description** | Enables or disables the NIC. |
| **Legal Values** | • 0 — Disabled<br>• 1 — Enabled |
| **Default** | 1 — Enabled |

**NOTE:** If this object is modified, then the object cfgNicEnable is also modified.

## cfgNicStaticIPv4Enable (Read or Write)

| | |
|---|---|
| **Description** | Enables or disables the IPv4 stack. |
| **Legal Values** | • 0 — Disabled<br>• 1 — Enabled |
| **Default** | 1 — Enabled |

**NOTE:** If this object is modified, then the object cfgNicIPv4Enable is also modified.

## cfgNicStaticIpAddress (Read or Write)

| | |
|---|---|
| **Description** | Returns or sets the current IPv4 address.<br>**NOTE:** Only sets the current IPv4 address if cfgNicUseDhcp is set to 0 (false). |
| **Legal Values** | Any Valid IPv4 address |
| **Default** | 192.168.0.120 |

## cfgNicStaticUseDhcp (Read or Write)

| | |
|---|---|
| **Description** | Specifies whether DHCP is used to configure the IPv4 network. |
| **Legal Values** | • 0 — IP Address, subnet mask and gateway are configured on the device.<br>• 1 — IP Address, subnet mask and gateway are assigned from the DHCP server. |
| **Default** | 0 — Do not use DHCP |

**NOTE:** If this object is modified, then the object cfgNicUseDhcp is also modified.

## cfgNicStaticNetmask (Read or Write)

| | |
|---|---|
| **Description** | Returns or sets the static IPv4 Netmask.<br>**NOTE:** Only sets the current IPv4 netmask, if cfgNicUseDhcp is set to 0 (false). |
| **Legal Values** | Any Valid IPv4 Netmask |
| **Default** | 255.255.255.0 |

## cfgNicStaticGateway (Read or Write)

| | |
|---|---|
| **Description** | Returns or sets the static IPv4 address. |
| **Legal Values** | Any Valid IPv4 address |
| **Default** | 192.168.0.120 |

## cfgDNSStaticServersFromDHCP (Read or Write)

| | |
|---|---|
| **Description** | Specifies the DNS server static IP addresses. |
| **Legal Values** | • DNS Addresses are configured on the Device<br>• DNS Addresses are assigned via DHCP |
| **Default** | 0 |

## cfgDNSStaticServer1 (Read or Write)

| | |
|---|---|
| **Description** | Specifies the IP address for DNS server 1.<br>**NOTE:** This property is only valid if cfgDNSServersFromDHCP is set to 0 (FALSE). |
| **Legal Values** | • 0 — IP Address, subnet mask and gateway are configured on the device.<br>• 1 — IP Address, subnet mask and gateway are assigned from the DHCP server. |
| **Default** | 0 — Do not use DHCP |

**NOTE:** If this object is modified, then the object cfgNicUseDhcp is also modified.

## cfgDNSStaticServer2(Read/Write)

| | |
|---|---|
| **Description** | Specifies the static IP address for DNS server 2. |
| **Legal Values** | A Valid IPv4 Address |
| **Default** | 0.0.0.0 |

## cfgDNSStaticDomainName(Read/Write)

| | |
|---|---|
| **Description** | The DNS static domain name. |
| **Legal Values** | String of up to 254 ASCII characters. Characters are restricted to alphanumeric, hyphens, and periods. At least one of the characters should be alphabetic. |

**NOTE:** Microsoft Active Directory only supports Fully Qualified Domain Names (FQDN) of 64 characters or fewer length.

| | |
|---|---|
| **Default** | Null |

### cfgDNSStaticDomainNameFromDHCP (Read or Write)

| | |
|---|---|
| **Description** | Specifies the device DNS static domain name. |
| **Legal Values** | • 0 — Do not use DHCP to get the Domain Name<br>• 1 — Use DHCP to get the Domain Name |
| **Default** | 0 — Disabled |

## cfgRemoteHosts

This group provides properties that allow configuration of the SMTP server for e-mail alerts.

For CMC, this group enables/disables and configures firmware updates, NTP, remote syslogging, and SMTP email alerting. Use the -m option to apply this setting to iDRAC.

Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

The following sections provide information about the objects in the **cfgRemoteHosts** group.

### cfgRhostsFwUpdateTftpEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables iDRAC or CMC firmware update from a network TFTP server. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

### cfgRhostsFwUpdateIpAddr (Read/Write)

| | |
|---|---|
| **Description** | Specifies the network TFTP server IPv4 or IPv6 address that is used for TFTP iDRAC or CMC firmware update operations. |
| **Legal Values** | A string representing a valid IPv4 or IPv6 address. For example, `192.168.0.61` |
| **Default** | For IPv4, it is 0.0.0.0 |

## cfgRhostsFwUpdatePath (Read/Write)

| | |
|---|---|
| **Description** | Specifies TFTP path where iDRAC or CMC firmware image file exists on the TFTP server. The TFTP path is relative to the TFTP root path on the TFTP server.<br>**NOTE:** The server may still require you to specify the drive (for example, **C:**). |
| **Legal Values** | A string with a maximum length of 255 ASCII characters. |
| **Default** | <*blank*> |

## cfgRhostsSmtpServerIpAddr (Read/Write)

| | |
|---|---|
| **Description** | The IPv4 or IPv6 address of the network SMTP server. The SMTP server transmits e-mail alerts from iDRAC or CMC if the alerts are configured and enabled. |
| **Legal Values** | A string representing a valid SMTP server IPv4 or IPv6 address. For example: 192.168.0.55. |
| **Default** | • For iDRAC: For IPv4, it is 0.0.0.0<br>• For CMC: localhost.localdomain |

## cfgRhostsNtpEnable

| | |
|---|---|
| **Description** | Enables or disables the use of the Network Time Protocol (NTP) for date and time synchronization.<br>This object is applicable only for CMC. |
| **Legal Values** | • 1 (true)<br>• 0 (false) |
| **Default** | 0 |

## cfgRhostsNtpServer1

| | |
|---|---|
| **Description** | Specifies the first of three possible NTP servers.<br>This object is applicable only for CMC. |
| **Legal Values** | A string representing a valid NTP server. For example, ntp1.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed. |
| **Default** | Null |

## cfgRhostsNtpServer2

| | |
|---|---|
| **Description** | Specifies the second of three possible NTP servers. |

This object is applicable only for CMC.

**Legal Values**

A string representing a valid NTP server. For example, ntp2.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed.

**Default**

Null

## cfgRhostsNtpServer3

**Description**

Specifies the third of three possible NTP servers.

This object is applicable only for CMC.

**Legal Values**

A string representing a valid NTP server. For example, ntp3.ntp.net. At least one NTP server must be specified and duplicate entries are not allowed.

**Default**

Null

## cfgRhostsNtpMaxDist

**Description**

Specifies the NTP maximum distance parameter used to aid in NTP configuration.

This object is applicable only for CMC.

**Legal Values**

1 – 128

**Default**

16

## cfgRhostsSyslogEnable (Read/Write)

**Description**

Enables or disables remote syslog to allow the RAC and SEL logs to be written to up to three remote syslog servers.

**Legal Values**

- 1 (TRUE)
- 0 (FALSE)

**Default**

0

## cfgRhostsSyslogPort (Read/Write)

**Description**

Remote syslog port number to use for writing the RAC and SEL logs to a remote syslog server.

For CMC, this setting takes effect only if the **cfgRhostsSyslogEnable** parameter is set to 1 (enabled).

**Legal Values**

10 — 65535

**NOTE:** For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106.

**Default**

514

## cfgRhostsSyslogServer1 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the first of three possible remote syslog servers to store the RAC and SEL logs.This property is only valid if **cfgRhostsSyslogEnable** is set to 1 (enabled). |
| **Legal Values** | • For iDRAC: String from 0 to 63 characters.<br>• For CMC: Valid hostname or IPv4 or IPv6 address. |
| **Default** | <*blank*> |

## cfgRhostsSyslogServer2 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the second of three possible remote syslog servers to store the RAC and SEL logs.. This property is only valid if **cfgRhostsSyslogEnable** is set to 1 (enabled). |
| **Legal Values** | • For iDRAC: String from 0 to 63 characters.<br>• For CMC: Valid hostname or IPv4 or IPv6 address. |
| **Default** | <*blank*> |

## cfgRhostsSyslogServer3 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the third of three possible remote syslog servers to store the RAC and SEL logs.This property is only valid if **cfgRhostsSyslogEnable** is set to 1 (enabled). |
| **Legal Values** | • For iDRAC: String from 0 to 63 characters.<br>• For CMC: Valid hostname or IPv4 or IPv6 address. |
| **Default** | <*blank*> |

## cfgRhostsSyslogPowerLoggingEnabled

| | |
|---|---|
| **Description** | Enables or disables power consumption logging to remote syslog servers.<br>This object is applicable only for CMC.<br>**NOTE:** Remote syslog must be enabled and one or more remote syslog servers must be configured for power consumption to be logged. |
| **Legal Values** | • 1 (enabled)<br>• 0 (disabled) |
| **Default** | 0 |

### cfgRhostsSyslogPowerLoggingInterval

| | |
|---|---|
| **Description** | Specifies the power consumption collection/logging interval. This object is applicable only for CMC.<br>**NOTE:** This object is applicable only for CMC. |
| **Legal Values** | 1 - 1440 (minutes) |
| **Default** | 5 |

**Example**

```
racadm getconfig -g cfgRemoteHosts [-m server-<n>]

cfgRhostsFwUpdateTftpEnable=1
cfgRhostsFwUpdateIpAddr=0.0.0.0
cfgRhostsFwUpdatePath=
cfgRhostsSmtpServerIpAddr=localhost.localdomain
cfgRhostsNtpEnable=0
cfgRhostsNtpServer1=
cfgRhostsNtpServer2=
cfgRhostsNtpServer3=
cfgRhostsNtpMaxDist=16
cfgRhostsSyslogEnable=0
cfgRhostsSyslogPort=514
cfgRhostsSyslogServer1=
cfgRhostsSyslogServer2=
cfgRhostsSyslogServer3=cfgRhostsSyslogPowerLoggingEnabled=1
cfgRhostsSyslogPowerLoggingInterval=5
```

## cfgUserAdmin

This group provides configuration information about the users who are allowed to access iDRAC or CMC through the available remote interfaces.

Up to 16 instances of the user group are allowed. Each instance represents the configuration for an individual user.

**NOTE:** In the current CMC firmware version, the objects cfgUserAdminEnable and cfgUserAdminPrivilege are interrelated; changing the value of one property causes the value of the other property to change. For example, if a user does not have login privilege, the user is disabled by default. When you enable the user by changing the value of UserAdminEnable to 1, the right most digit of the UserAdminPrivilege also becomes 1. On the other hand, if you change the right most digit of the UserAdminPrivilege to 0, the value of UserAdminEnable becomes 0.

Use this object with the config or getconfig subcommands. You must supply an index group number to use these commands as follows: -i <index group>

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the -o option.

The following sections provide information about the objects in the **cfgUserAdmin** group.

### cfgUserAdminIndex (Read Only)

| | |
|---|---|
| **Description** | The unique index of a user. |

| | |
|---|---|
| | For CMC, the index number is used to specify a unique group name. Only valid for indexed groups. |
| **Legal Values** | • For iDRAC: This parameter is populated based on the existing instances.<br>• For CMC: The parameter is specified by a decimal integer from 1–16. |
| **Default** | *<index of the instance>* |

## cfgUserAdminIpmiLanPrivilege (Read/Write)

| | |
|---|---|
| **Description** | The maximum privilege on the IPMI LAN channel.<br>This object property is specific to iDRAC. |
| **Legal Values** | • 2 (User)<br>• 3 (Operator)<br>• 4 (Administrator)<br>• 15 (No access) |
| **Default** | • 4 (User 2)<br>• 15 (All others) |

## cfgUserAdminPrivilege (Read/Write)

| | |
|---|---|
| **Description** | This property specifies the role-based authority privileges allowed for the user. The value is represented as a bit mask that allows for any combination of privilege values. The table below describes the user privilege bit values that can be combined to create bit masks. |
| **Legal Values** | • For iDRAC: 0x00000000 to 0x000001ff, and 0x0<br>• For CMC: 0x0000000-0x0000fff, and 0x0 |
| **Default** | 0x00000000 |

**Example**

```
racadm getconfig -g cfgUserAdmin -i 1

# cfgUserAdminIndex=1
cfgUserAdminEnable=1
cfgUserAdminUserName=root
# cfgUserAdminPassword=******** (Write-Only)
cfgUserAdminPrivilege=0x00000fff
```

The following table lists the bit masks for user priveleges.

| iDRAC Specific User Privilege | Privilege Bit Mask |
|---|---|
| Login to iDRAC | 0x00000001 |
| Configure iDRAC | 0x00000002 |
| Configure Users | 0x00000004 |

| | |
|---|---|
| Clear Logs | 0x00000008 |
| Execute Server Control Commands | 0x00000010 |
| Access Virtual Console | 0x00000020 |
| Access Virtual Media | 0x00000040 |
| Test Alerts | 0x00000080 |
| Execute Debug Commands | 0x00000100 |
| **CMC Specific User Privilege** | |
| CMC Login User | 0x0000001 |
| Chassis Configuration Administrator | 0x0000002 |
| User Configuration Administrator | 0x0000004 |
| Clear Logs Administrator | 0x0000008 |
| Chassis Control Administrator | 0x0000010 |
| Super User | 0x0000020 |
| Server Administrator | 0x0000040 |
| Test Alert User | 0x0000080 |
| Debug Command Administrator | 0x0000100 |
| Fabric A Administrator | 0x0000200 |
| Fabric B Administrator | 0x0000400 |
| Fabric C Administrator | 0x0000800 |

### Examples

The following table provides sample privilege bit masks for users with one or more privileges.

| User Privilege(s) | Privilege Bit Mask |
|---|---|
| The user is not allowed to access iDRAC or CMC. | 0x00000000 |
| The user may only login to iDRAC or CMC and view iDRAC or CMC and server configuration information. | 0x00000001 |
| The user may login to iDRAC or CMC and change configuration. | 0x00000001 + 0x00000002 = 0x00000003 |
| The user may login to iDRAC, access Virtual Media, and Virtual Console. | 0x00000001 + 0x00000040 + 0x00000080 = 0x000000C1 |

## cfgUserAdminUserName (Read/Write)

| | |
|---|---|
| **Description** | The name of the user for this index. The user index is created by writing a string into this name field if the index is empty. Writing a string of double quotes ("") deletes the user at that index. You cannot change the name. You must delete and then recreate the name. The string cannot contain / (forward slash), \ (backslash), . (period), @ (at symbol) or quotation marks.<br>**NOTE:** This property value must be unique among user names. |
| **Legal Values** | A string of up to 16 ASCII characters. |
| **Default** | • root (User 2)<br>• <*blank*> (All others) |

## cfgUserAdminPassword (Write Only)

| | |
|---|---|
| **Description** | The password for this user. User passwords are encrypted and cannot be seen or displayed after the property is written. |
| **Legal Values** | A string of up to 20 ASCII characters. |
| **Default** | ******** |

## cfgUserAdminEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables an individual user.<br>**NOTE:** You can enable a user for a given index, only if you set the password for the same user. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | • For iDRAC: 1 (User 2), 0 (All others)<br>• For CMC: 0 |

## cfgUserAdminSolEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables Serial Over LAN (SOL) user access for the user.<br>This object property is specific to iDRAC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |

| | |
|---|---|
| **Default** | 0 |

### cfgUserAdminIpmiSerialPrivilege (Read/Write)

| | |
|---|---|
| **Description** | The maximum privilege on the IPMI LAN channel.<br>This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC. |
| **Legal Values** | • 2 (User)<br>• 3 (Operator)<br>• 4 (Administrator)<br>• 15 (No access) |
| **Default** | • 4 (User 2)<br>• 15 (All others) |

## cfgEmailAlert

This group contains parameters to configure iDRAC or CMC e-mail alerting capabilities. Up to four instances of this group are allowed.

Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privileges.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provide information about the objects in the **cfgEmailAlert** group.

### cfgEmailAlertIndex (Read Only)

| | |
|---|---|
| **Description** | The unique index of an alert instance. |
| **Legal Values** | 1-4 |
| **Default** | <*instance*> |

### cfgEmailAlertEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the alert instance. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

### cfgEmailAlertAddress (Read/Write)

| | |
|---|---|
| **Description** | Specifies the destination email address for email alerts, for example, user1@company.com. |
| **Legal Values** | E-mail address format, with a maximum length of 64 ASCII characters. |
| **Default** | <*blank*> |

### cfgEmailAlertCustomMsg (Read/Write)

| | |
|---|---|
| **Description** | Specifies a custom message that forms the subject of the alert.<br>This object property is specific to iDRAC. |
| **Legal Values** | A string of up to 32 characters |
| **Default** | <*blank*> |

### cfgEmailAlertEmailName

| | |
|---|---|
| **Description** | Specifies name or other identifier associated with the destination e-mail address. The e-mail name can refer to an individual, group, location, department, and so on.<br>This object property is specific to CMC. |
| **Legal Values** | A string of up to 32 characters |
| **Default** | <*blank*> |

**Example**

```
racadm getconfig -g cfgEmailAlert -i 2

# cfgEmailAlertIndex=1
cfgEmailAlertEnable=1
cfgEmailAlertAddress=kfulton@dell.com
cfgEmailAlertName=Kevin Fulton
```

## cfgSessionManagement

This group contains parameters to configure the number of sessions that can connect to iDRAC. One instance of the group is allowed. Displays current settings for and configures idle timeout properties for Web server, Telnet, SSH, and RACADM sessions. Changes to idle timeout settings take effect at the next login. To disable idle timeout for a connection, set this property to 0. Use the -m option to apply this setting to iDRAC.

The following sections provide information about the objects in the **cfgSessionManagement** group.

## cfgSsnMgtRacadmTimeout (Read/Write)

| | |
|---|---|
| **Description** | Defines the idle timeout in seconds for the Remote RACADM interface. If a remote RACADM session remains inactive for more than the specified sessions, the session closes. |
| **Legal Values** | 10 –1920 |
| **Default** | iDRAC - 60<br>CMC - 30 |

**Example**

```
racadm getconfig -g cfgSessionManagement cfgSsnMgtWebserverTimeout=0
cfgSsnMgtTelnetIdleTimeout=0
cfgSsnMgtSshIdleTimeout=300
cfgSsnMgtRacadmTimeout=0
```

## cfgSsnMgtConsRedirMaxSessions (Read/Write)

| | |
|---|---|
| **Description** | Specifies the maximum number of Virtual Console sessions allowed on iDRAC.<br>This object is applicable only for iDRAC. |
| **Legal Values** | 1 - 4 |
| **Default** | 4 |

## cfgSsnMgtWebserverTimeout (Read/Write)

| | |
|---|---|
| **Description** | Defines the Web server time-out. This property sets the amount of time (in seconds) that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session. You must log out and log in again to make the new settings effective.<br>An expired Web server session logs out the current session. |
| **Legal Values** | 60 – 10800 |
| **Default** | 1800 |

## cfgSsnMgtSshIdleTimeout (Read/Write)

| | |
|---|---|
| **Description** | Defines the secure shell idle time-out. This property sets the amount of time (in seconds) that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session; you must log out and log in again to make the new settings effective.<br>An expired secure shell session displays the following error message:<br>• In case of iDRAC on Rack and Tower Servers: Connection timed out<br>• In case of iDRAC Enterprise on Blade Servers: `Session timed out. Closing the session.` |

After the message is displayed, the system returns to the shell that generated the Secure Shell session.

**Legal Values**

- 0 (No timeout)
- 60 – 10800

**NOTE:** If 0 (no timeout), the network connection does not send keep alive packets to probe the client. Otherwise, keep alive packets are sent to guarantee that the client is responding.

**Default**

- For iDRAC on Rack and Tower Servers: 300
- For iDRAC Enterprise on Blade Servers and CMC: 1800

### cfgSsnMgtTelnetIdleTimeout (Read/Write)

**Description**

Defines the Telnet idle timeout. This property sets the amount of time in seconds that a connection is allowed to remain idle (there is no user input). The session is cancelled if the time limit set by this property is reached. Changes to this setting do not affect the current session (you must log out and log in again to make the new settings effective.)

An expired Telnet session displays the following error message:

- In case of iDRAC on Rack and Tower Servers: `Connection timed out`
- In case of iDRAC Enterprise on Blade Servers: `Session timed out. Closing the session.`

After the message is displayed, the system returns you to the shell that generated the Telnet session.

**Legal Values**

For iDRAC:

- 0 (No timeout)
- 60– 10800

**NOTE:** If 0 (no timeout is specified), the network connection does not send keep alive packets to probe the client. Otherwise, keep alive packets are sent to guarantee that the client is responding.

**Default**

- For iDRAC on Rack and Tower Servers: 300
- For iDRAC Enterprise on Blade Servers and CMC: 1800

## cfgSerial

This group contains configuration parameters for iDRAC or CMC services. One instance of the group is allowed.

Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

The following sections provide information about the objects in the **cfgSerial** group.

**NOTE:** The **cfgSerial** object group is applicable for iDRAC Enterprise on Blade Servers for only two properties—**cfgSerialTelnetEnable=1** and **cfgSerialSshEnable=1**.

## cfgSerialBaudRate (Read/Write)

| | |
|---|---|
| **Description** | Sets the baud rate on iDRAC or CMC serial port. |
| **Legal Values** | • For iDRAC: 9600, 28800, 57600, 115200<br>• For CMC: 2400, 4800, 9600, 19200, 28800, 38400, 57600,115200 |
| **Default** | • For iDRAC: 57600<br>• For CMC: 115200 |

## cfgSerialConsoleEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the RAC or CMC serial console interface. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | • For iDRAC: 0<br>• For CMC: 1 |

## cfgSerialConsoleQuitKey (Read/Write)

**Description**

For iDRAC:

This key or key combination terminates Virtual Console text for iDRAC when using the **console com2** command.

The **cfgSerialConsoleQuitKey** value can be represented by one of the following:

- Decimal value — For example, 95
- Hexadecimal value — For example, 0x12
- Octal value — For example, 007
- ASCII value — For example, ^a
  ASCII values may be represented using the following Escape Key codes:

^ followed by any alphabet (a-z, A-Z) ^ followed by the listed special characters: [ ] \ ^ _

For CMC:

This key specifies the character that aborts the serial text console connect (or racadm connect) command.

**NOTE:** The CTRL key is represented by using the ^ (carat) character.

**NOTE:** The CTRL key does not generate a character by itself, but must be struck simultaneously with another key to generate a character.

For example, striking both the CTRL key and the \ key simultaneously (rather than sequentially) is denoted as ^\.

Configuration options: The value must start with the ^ character, and be followed by one of the characters— a-z, A-Z, [, ], \

**Legal value:** String of up to 4 characters

**Default:**

- For iDRAC: <*Ctrl*><▷
- For CMC: ^\

**NOTE:** For information on using RACADM commands for special characters, see Guidelines to Quote Strings Containing Special Characters

## cfgSerialConsoleIdleTimeout (Read/Write)

**Description** The maximum number of seconds to wait before an idle serial session is disconnected.

**Legal Values**

- 0 = No timeout
- 60 – 1920

**Default**

- For iDRAC: 300
- For CMC: 1800

## cfgSerialConsoleNoAuth (Read/Write)

**Description** Enables or disables the RAC or CMC serial console login authentication.

**Legal Values**

- 0 (enables serial login authentication)
- 1 (disables serial login authentication)

**Default** 0

## cfgSerialConsoleCommand (Read/Write)

**Description** Specifies a serial command that is executed after a user logs into the serial console interface.

**Legal Values**

- For iDRAC: A string of up to 128 characters.
- For CMC: A string representing a valid serial command. For example, connect server-1.

**Default** <*blank*>

## cfgSerialConsoleColumns

Description Specifies the number of columns in the terminal window command line connected to the serial port. You must log out, then log in again for the changes to take effect.

This object property is applicable only for CMC.

**NOTE:** The prompt counts as two characters.

**NOTE:** The terminal emulator must be configured with the line wrap mode ON, if a terminal emulator is used.

| | |
|---|---|
| Legal Values | 0 – 256 |
| Default | 0 (equivalent to 80) |

## cfgSerialHistorySize (Read/Write)

| | |
|---|---|
| **Description** | Specifies the maximum size of the serial history buffer. |
| **Legal Values** | 0 – 8192 |
| **Default** | 8192 |

## cfgSerialCom2RedirEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the console for COM 2 port redirection.<br>The cfgSerialCom2RedirEnable object property is applicable only for iDRAC on Rack and Tower Servers. It is not applicable for iDRAC Enterprise on Blade Servers and CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

## cfgSerialSshEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the secure shell (SSH) interface on iDRAC or CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

**Example**

```
racadm getconfig -g cfgSerial

cfgSerialBaudRate=115200
cfgSerialConsoleEnable=1
cfgSerialConsoleQuitKey=^\
cfgSerialConsoleIdleTimeout=1800
cfgSerialConsoleNoAuth=0
cfgSerialConsoleCommand=
cfgSerialConsoleColumns=0
cfgSerialHistorySize=8192
cfgSerialTelnetEnable=0
cfgSerialSshEnable=1
```

### cfgSerialTelnetEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the Telnet console interface on iDRAC or CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

## cfgOobSnmp

This group contains parameters to configure the SNMP agent and trap capabilities of iDRAC or CMC. One instance of the group is allowed.

The CMC SNMP agent supports the standard RFC1213 mib-2, and the Dell enterprise-specific MIB.

This group is not applicable for iDRAC on Rack and Tower Servers.

For CMC, use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provide information about the objects in the **cfgOobSnmp** group.

### cfgOobSnmpAgentCommunity (Read/Write)

| | |
|---|---|
| **Description** | Specifies the SNMP Community Name (identical to community string) used for SNMP traps. The community string acts as a password shared between different hosts over the network. This community string value must match with that of the other hosts for any kind of communication through SNMP. |
| **Legal Values** | A string of up to 31 characters. |
| **Default** | public |

**Example**

```
racadm getconfig -g cfgOobSnmp

cfgOobSnmpTrapsEnable=1
cfgOobSnmpAgentCommunity=public
```

### cfgOobSnmpAgentEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the SNMP agent in iDRAC or CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

# cfgTraps

This group displays information for and configures delivery of SNMP traps for a specific user.

This object property is applicable only to CMC. Use this object with the **config** or **getconfig** subcommands.

To use this object property, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** You can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

## cfgTrapsIndex (Read Only)

| | |
|---|---|
| **Description** | Indicates the unique index of an alert instance. |
| **Legal Values** | 1 - 4 |
| **Default** | 1 |

## cfgTrapsEnable

| | |
|---|---|
| **Description** | Enables or disables event traps on the CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | None |

## cfgTrapsAlertDestIpAddr

| | |
|---|---|
| **Description** | Sets the IP address that receives the alert. |
| **Legal Values** | A string representing a valid IP address. For example, 192.168.0.20. |
| **Default** | None |

## cfgTrapsCommunityName

| | |
|---|---|
| **Description** | Sets the community string (identical to the community name) used for authentication. The community string acts as a password shared between different hosts over the network. This community string value must match with that of the other hosts for any kind of communication through SNMP. |
| **Legal Values** | A string representing the community name. |
| **Default** | None |

**Example**

```
racadm getconfig -g cfgTraps -i 2

# cfgTrapsIndex=2
cfgTrapsEnable=1
```

```
cfgTrapsAlertDestIpAddr=
cfgTrapsCommunityName=public
```

# cfgRacTuning

This group is used to configure various iDRAC or CMC configuration properties, such as valid ports and security port restrictions.

Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

Use the **-m** option to apply this setting to iDRAC.

The following sections provide information about the objects in the **cfgRacTuning** group.

## cfgRacTuneConRedirPort (Read/Write)

| | |
|---|---|
| **Description** | Specifies the port to be used for keyboard, mouse, video, and Virtual Media traffic to iDRAC.<br>This object is applicable only to iDRAC. |
| **Legal Values** | 1024 – 65535 |
| **Default** | 5900 |

## cfgRacTuneRemoteRacadmEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the Remote RACADM interface in iDRAC or CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

## cfgRacTuneCtrlEConfigDisable

| | |
|---|---|
| **Description** | Enables or disables the ability of the local user to configure iDRAC from the BIOS POST option-ROM.<br>This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

## cfgRacTuneHttpPort (Read/Write)

| | |
|---|---|
| **Description** | Specifies the port number to use for HTTP network communication with iDRAC or CMC. |
| **Legal Values** | 10 – 65535<br>**NOTE:** For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106. |
| **Default** | 80 |

## cfgRacTuneHttpsPort (Read/Write)

| | |
|---|---|
| **Description** | Specifies the port number to use for HTTPS network communication with iDRAC or CMC. |
| **Legal Values** | 10 – 65535<br>**NOTE:** For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106. |
| **Default** | 443 |

## cfgRacTuneIpRangeEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the IPv4 Address Range validation feature of iDRAC or CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

## cfgRacTuneIpRangeAddr (Read/Write)

| | |
|---|---|
| **Description** | Specifies the acceptable IPv4 address bit pattern in positions determined by the "1"s in the range mask property (**cfgRacTuneIpRangeMask**).<br>For CMC, a login from the incoming IP address is allowed only if the following are identical:<br>• cfgRacTuneIpRangeMask bit-wise and with incoming IP address<br>• cfgRacTuneIpRanbeMask bit-wise and with cfgRacTuneIpRangeAddr |
| **Legal Values** | An IPv4 address formatted string, for example, 192.168.0.44. |

| | |
|---|---|
| **Default** | 192.168.1.1 |

## cfgRacTuneIpRangeMask (Read/Write)

| | |
|---|---|
| **Description** | Standard IP mask values with left-justified bits. For example, 255.255.255.0.<br>For CMC, a login from the incoming IP address is allowed only if both of the following are identical:<br>• cfgRacTuneIpRangeMask bit-wise and with incoming IP address<br>• cfgRacTuneIpRanbeMask bit-wise and with cfgRacTuneIpRangeAddr |
| **Legal Values** | An IPv4 address formatted string, for example, 255.255.255.0. |
| **Default** | 255.255.255.0 |

## cfgRacTuneIpBlkEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the IPv4 address blocking feature of iDRAC or CMC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

## cfgRacTuneIpBlkFailCount (Read/Write)

| | |
|---|---|
| **Description** | The maximum number of login failures to occur within the window (cfgRacTuneIpBlkFailWindow) before login attempts from the IP address are rejected. |
| **Legal Values** | 2 – 16 |
| **Default** | 5 |

## cfgRacTuneIpBlkFailWindow (Read/Write)

| | |
|---|---|
| **Description** | Defines the time span in seconds that the failed attempts are counted. When failure attempts age beyond this limit, they are dropped from the count. |
| **Legal Values** | • For iDRAC: 10 – 655356<br>• For CMC: 2 – 655356 |
| **Default** | 60 |

## cfgRacTuneIpBlkPenaltyTime (Read/Write)

| | |
|---|---|
| **Description** | Defines the time span in seconds that session requests from an IP address with excessive failures are rejected. |
| **Legal Values** | • For iDRAC: 10 – 655356<br>• For CMC: 2 – 655356 |
| **Default** | 300 |

## cfgRacTuneSshPort (Read/Write)

| | |
|---|---|
| **Description** | Specifies the port number used for iDRAC or CMC SSH interface. |
| **Legal Values** | • For iDRAC: 1 – 65535<br>• For CMC: 10 – 65535 |
| **Default** | 22 |

## cfgRacTuneTelnetPort (Read/Write)

| | |
|---|---|
| **Description** | Specifies the port number used for iDRAC or CMC Telnet interface.<br>**NOTE:** For CMC, the following port numbers are reserved and cannot be used: 21, 68, 69, 123, 161, 546, 801, 4096, 5988, 5989, 6900, 9000, 60106. |
| **Legal Values** | • For iDRAC: 1 – 65535<br>• For CMC: 10 – 65535 |
| **Default** | 23 |

## cfgRacTuneConRedirEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables Virtual Console.<br>This object property is applicable only to iDRAC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

## cfgRacTuneConRedirEncryptEnable (Read/Write)

| | |
|---|---|
| **Description** | Encrypts the video in a Virtual Console session. |

| | |
|---|---|
| | This object property is applicable only to iDRAC. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

## cfgRacTuneAsrEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables iDRAC last crash screen capture feature.<br>This object property is applicable only to iDRAC and requires an iDRAC reset before it becomes active. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

## cfgRacTuneDaylightOffset (Read Only)

| | |
|---|---|
| **Description** | Specifies the daylight savings offset (in minutes) to use for the RAC Time. This value is 0 if the time zone is not a Daylight Saving time zone. |
| **Legal Values** | 0 – 60 |
| **Default** | 0 |

**Example**

```
racadm getconfig -g cfgRacTuning [-m server-<n>] -o
<object name> <object value>
```

```
cfgRacTuneRemoteRacadmEnable=1
cfgRacTuneWebserverEnable=1
cfgRacTuneHttpPort=80
cfgRacTuneHttpsPort=443
cfgRacTuneTelnetPort=23
cfgRacTuneSshPort=22
cfgRacTuneIpRangeEnable=0
cfgRacTuneIpRangeAddr=192.168.1.1
cfgRacTuneIpRangeMask=255.255.255.0
cfgRacTuneIpBlkEnable=0
cfgRacTuneIpBlkFailCount=5
cfgRacTuneIpBlkFailWindow=60
cfgRacTuneIpBlkPenaltyTime=300
# cfgRacTuneTimezoneOffset=-18000
# cfgRacTuneDaylightOffset=3600
```

## cfgRacTuneTimezoneOffset (Read Only)

| | |
|---|---|
| **Description** | Specifies the time zone offset (in minutes) from Greenwich Mean Time (GMT)/Coordinated Universal Time (UTC) to use for the RAC Time. Some common time zone offsets for time zones in the United States are:<br>• –480 (PST—Pacific Standard Time) |

- –420 (MST—Mountain Standard Time)
- –360 (CST—Central Standard Time)
- –300 (EST—Eastern Standard Time)

For CMC: This object property is read only. Specifies the difference in number of seconds, from the UTC/GMT. This value is negative if the current time zone is west of Greenwich.

**Legal Values** –720 – 7800

**Default** 0

**Example**

```
racadm getconfig -g cfgRacTuning

cfgRacTuneRemoteRacadmEnable=1
cfgRacTuneWebserverEnable=1
cfgRacTuneHttpPort=80
cfgRacTuneHttpsPort=443
cfgRacTuneTelnetPort=23
cfgRacTuneSshPort=22
cfgRacTuneIpRangeEnable=0
cfgRacTuneIpRangeAddr=192.168.1.1
cfgRacTuneIpRangeMask=255.255.255.0
cfgRacTuneIpBlkEnable=0
cfgRacTuneIpBlkFailCount=5
cfgRacTuneIpBlkFailWindow=60
cfgRacTuneIpBlkPenaltyTime=300# cfgRacTuneTimezoneOffset=-18000#
cfgRacTuneDaylightOffset=3600
```

## cfgRacTuneLocalServerVideo (Read/Write)

**Description** Enables or disables the local server video.

**NOTE:** This object property is applicable only to iDRAC.

**Legal Values**

- 1 (TRUE - Enables)
- 0 (FALSE- Disables)

**Default** 1

## cfgRacTuneLocalConfigDisable (Read/Write)

**Description** Disables write access to iDRAC configuration data.

**NOTE:** Access can be disabled using the local RACADM or iDRAC Web interface; however, once disabled, access can be re-enabled only through iDRAC Web interface.

This object property is applicable only to iDRAC.

**Legal Values**

- 0 (TRUE-Enables)
- 1 (FALSE-Disables)

| | |
|---|---|
| **Default** | 0 |

## cfgRacTuneWebserverEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables iDRAC or CMC web server. If this property is disabled, iDRAC or CMC is not accessible using client web browsers. This property has no effect on the Telnet/SSH or RACADM interfaces. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

## cfgRacTuneVirtualConsoleAuthorizeMultipleSessions (Read/Write)

| | |
|---|---|
| **Description** | If a first user is already using the Virtual Console, the value of this object effects the privileges granted to the subsequent user's shared request after the timeout of 30 seconds.<br>This object property is applicable only to iDRAC.<br>This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.<br>**NOTE:** To modify this property, you must have Configure iDRAC permission. This object can be used only with remote or firmware (SSH or Telnet) RACADM and not with local RACADM or with earlier DRAC products. |
| **Legal Values** | 0 (If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets an access denied error after the default timeout value of 30 seconds.)<br>1 (If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets a read only access after the default timeout value of 30 seconds.)<br>2 (If the user of the first session has not responded for session sharing request by subsequent user, the next session user gets administrator access after default timeout value of 30 seconds.) |
| **Default** | 0 |

## cfgRacTunePluginType (Read/Write)

| | |
|---|---|
| **Description** | Specifies the plug-in type to use when running virtual console from browser.<br>This object property is applicable only to iDRAC. |
| **Legal Values** | • 0 = Use Active X /Native Plugin |

| | |
|---|---|
| | • 1 = Use Java Plugin |
| **Default** | 0 = Active X /Native Plugin |

# ifcRacManagedNodeOs

This group contains properties that describe the managed server operating system. One instance of the group is allowed.

This object is applicable only to iDRAC.

The following sections provide information about the objects in the **ifcRacManagedNodeOs** group.

## ifcRacMnOsHostname (Read Only)

| | |
|---|---|
| **Description** | The host name of the managed server. |
| **Legal Values** | A string of up to 255 characters. |
| **Default** | <*blank*> |

## ifcRacMnOsOsName (Read Only)

| | |
|---|---|
| **Description** | The operating system name of the managed server. |
| **Legal Values** | A string of up to 255 characters. |
| **Default** | <*blank*> |

# cfgRacVirtual

This group contains parameters to configure the iDRAC Virtual Media feature. One instance of the group is allowed.

This object is applicable only to iDRAC.

The following sections provide information about the objects in the **cfgRacVirtual** group.

## cfgVirMediaAttached (Read/Write)

| | |
|---|---|
| **Description** | This object is used to attach virtual devices to the system via the USB bus. When the devices are attached, the server recognizes valid USB mass storage devices attached to the system. This is equivalent to attaching a local USB CDROM/floppy drive to a USB port on the system. When the devices are attached, they can be connected to the virtual devices remotely using iDRAC Web interface or the CLI. Setting this object to **0** causes the devices to detach from the USB bus. |
| **Legal Values** | • 0 = Detach<br>• 1 = Attach<br>• 2 = Auto-Attach |
| **Default** | 0 |

## cfgVirtualBootOnce (Read/Write)

**Description**

Enables or disables the **Virtual Media Boot Once** feature of iDRAC.

If this property is enabled when the host server is rebooted, this feature attempts to boot from the virtual media devices—if the appropriate media is installed in the device.

**Legal Values**

- 1 (TRUE)
- 0 (FALSE)

**Default**

0

## cfgVirMediaFloppyEmulation (Read/Write)

**Description**

When set to 0, the virtual floppy drive is recognized as a removable disk by Windows operating systems. Windows operating systems assigns a drive letter that is C: or higher during enumeration. When set to 1, the Virtual Floppy drive is seen as a floppy drive by Windows operating systems. Windows operating systems assigns a drive letter of A: or B:.

**NOTE:** Virtual Media has to be reattached (using cfgVirMediaAttached) for this change to take effect.

**Legal Values**

- 1 (TRUE)
- 0 (FALSE)

**Default**

0

## cfgSDWriteProtect (Read Only)

**Description**

Displays if the physical write protect latch on the SD card is enabled or disabled.

**NOTE:** This command is deprecated from iDRAC 1.5 and CMC 3.0 releases onwards. The functionality of this command is now covered by `cfgVFlashSDWriteProtect`. While execution of the `cfgSDWriteProtect` command is successful, it is recommended to use the `cfgVFlashSDWriteProtect` command. For more information, see "cfgVFlashSDWriteProtect" on page 132.

**Legal Values**

- 1 (TRUE)
- 0 (FALSE)

| | |
|---|---|
| **Default** | 0 |

# cfgServerInfo

For iDRAC this group allows you to select the BIOS first boot device and provides the option to boot the selected device only once.

For CMC, this group allows you to displays information for and configure a server in the chassis.

Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the -o option

The following sections provide information about the objects in the **cfgServerInfo** group.

## cfgServerInfoIndex (Read Only)

| | |
|---|---|
| **Description** | Displays the index name of the server.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerSlotNumber (Read Only)

| | |
|---|---|
| **Description** | Specifies the location of the specified server (1–16) in the chassis.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerServiceTag (Read Only)

| | |
|---|---|
| Description | Displays the service tag of the specified server.<br>This object is applicable only to CMC. |
| Legal Values | None |
| Default | None |

## cfgServerName (Read/Write)

| | |
|---|---|
| **Description** | Displays the name of the specified server.<br>This object is applicable only to CMC. |
| **Legal Values** | Maximum of 15 non-extended ASCII characters, (ASCII codes 32 through 126). For more information, see Guidelines to Quote Strings Containing Special Characters. |
| **Default** | SLOT - <*slot number*> |

## cfgServerFW (Read Only)

| | |
|---|---|
| **Description** | Displays the server's iDRAC management firmware revision.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerBIOS (Read Only)

| | |
|---|---|
| **Description** | Displays the server's BIOS revision.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerBmcMacAddress (Read Only)

| | |
|---|---|
| **Description** | Displays the BMC MAC address of the specified server.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerNic1MacAddress (Read Only)

| | |
|---|---|
| **Description** | Displays the MAC address of the server NIC 1.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerNic2MacAddress (Read Only)

| | |
|---|---|
| **Description** | Displays the MAC address of the server NIC 2.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerNic3MacAddress (Read Only)

| | |
|---|---|
| **Description** | Displays the MAC address of the server NIC 3.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerNic4MacAddress (Read Only)

| | |
|---|---|
| **Description** | Displays the MAC address of the server NIC 4.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerPriority (Read/Write)

| | |
|---|---|
| **Description** | Sets the priority level allotted to the server in the chassis for power budgeting purposes.<br>This object is applicable only to CMC. |
| **Legal Values** | 1–9 in descending priority, where 1 holds the highest priority |
| **Default** | 1 |

## cfgServerNicEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables LAN channel.<br>This object is applicable only to CMC. |
| **Legal Values** | • 1 (Enable)<br>• 0 (Disable) |
| **Default** | None |

## cfgServerIPMIOverLanEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables IPMI LAN channel.<br>This object is applicable only to CMC. |
| **Legal Values** | • 1 (enable)<br>• 0 (disable) |
| **Default** | None |

## cfgServerPowerBudgetAllocation (Read Only)

| | |
|---|---|
| **Description** | Displays the current power allocation for the server.<br>This object is applicable only to CMC. |
| **Legal Values** | • 1 (Enable)<br>• 0 (Disable) |
| **Default** | None |

## cfgServerDNSRegisterIMC (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables DNS name registration for the Integrated System (iDRAC).<br>This object is applicable only to CMC. |
| **Legal Values** | • 1 (enable)<br>• 0 (disable) |
| **Default** | None |

## cfgServerDNSIMCName (Read/Write)

| | |
|---|---|
| **Description** | Displays the DNS domain name for the integrated Remote Access Controller (iDRAC.)<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerRootPassword (Write Only)

| | |
|---|---|
| **Description** | Displays the password for iDRAC as a series of asterisks (*). It cannot be seen or displayed after this property is written.<br>This object is applicable only to CMC. |
| **Legal Values** | None |
| **Default** | None |

## cfgServerFirstBootDevice (Read or Write)

| | |
|---|---|
| **Description** | Sets or displays the first boot device.<br>For iDRAC, you can also set a vFlash partition that is attached as a bootable device. For more information, see cfgVFlashPartitionOSVolLabel.<br>For CMC, this object is Write only. |

**NOTE:** For a vFlash Partition to be configured as First Boot Device, it has to be attached first. When a detached / non-existent VFlash partition or a non-standard boot device is configured as first boot device, the following error message is displayed:

```
Invalid object value
```

**Legal Values**

- No-Override
- PXE
- HDD
- DIAG
- CD-DVD
- BIOS
- vFDD
- VCD-DVD
- iSCSI
- VFLASH partition label
- FDD
- SDe
- RFS (Remote File Share)

**Default** No-Override

## cfgServerBootOnce (Read/Write)

**Description** Enables or disables the server boot once feature.
For CMC, this object is Write only.

**Legal Values**

- 1 = TRUE
- 0 = FALSE

**Default** 0

## cfgServerPowerConsumption (Read Only)

**Description** Displays the current power consumption for a server.
This object is applicable only to CMC.

**Legal Values** None

**Default** None

**Example**

```
racadm getconfig -g cfgServerInfo -i 8
# cfgServerInfoIndex=8
# cfgServerSlotNumber=8
# cfgServerServiceTag=
cfgServerName=SLOT-08
# cfgServerFW=3.0
# cfgServerBIOS=
```

```
# cfgServerBmcMacAddress=00:21:9B:FE:5F:58
# cfgServerNic1MacAddress=00:0D:56:B8:69:63
170 CMC Property Database Group and Object Definitions
# cfgServerNic2MacAddress=00:0D:56:B8:69:65
# cfgServerNic3MacAddress=00:0D:56:B8:69:CB
# cfgServerNic4MacAddress=00:0D:56:B8:69:CD
cfgServerPriority=1
cfgServerNicEnable=1
cfgServerIPMIOverLANEnable=1
# cfgServerPowerBudgetAllocation=0
cfgServerDNSRegisterIMC=0
cfgServerDNSIMCName=iDRAC-
# cfgServerRootPassword=******** (Write-Only)
# cfgServerFirstBootDevice=******** (Write-Only)
# cfgServerBootOnce=******** (Write-Only)
# cfgServerPowerConsumption=0
racadm getconfig -g cfgServerInfo -i 1
# cfgServerInfoIndex=1
# cfgServerSlotNumber=1
# cfgServerServiceTag=1S0M0G1
cfgServerName=SLOT-01
# cfgServerFW=1.40 (Build 12)
# cfgServerBIOS=4.0.2
# cfgServerBmcMacAddress=00:18:8B:FF:41:43
# cfgServerNic1MacAddress=00:1A:A0:FF:D9:F4
# cfgServerNic2MacAddress=00:1A:A0:FF:D9:F6
cfgServerPriority=1
cfgServerNicEnable=1
cfgServerIPMIOverLANEnable=1
# cfgServerPowerBudgetAllocation=0
cfgServerDNSRegisterIMC=0
cfgServerDNSIMCName=iDRAC-1S0M0G1
# cfgServerRootPassword=******** (Write-Only)
# cfgServerFirstBootDevice=******** (Write-Only)
# cfgServerBootOnce=******** (Write-Only)
# cfgServerPowerConsumption=0
```

# cfgActiveDirectory

This group contains parameters to configure iDRAC or CMC Active Directory feature.

Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provide information about the objects in the **cfgActiveDirectory** group.

## cfgADRacDomain (Read/Write)

| | |
|---|---|
| **Description** | Active Directory Domain in which iDRAC or CMC resides. |
| **Legal Values** | Any printable text string of up to 254 characters, with no white space. |
| **Default** | <*blank*> |

## cfgADRacName (Read/Write)

| | |
|---|---|
| **Description** | Name of iDRAC or CMC as recorded in the Active Directory forest. |
| **Legal Values** | Any printable text string of up to 254 characters, with no white space. |
| **Default** | <*blank*> |

## cfgADRootDomain

| | |
|---|---|
| **Description** | Specifies the root domain of the domain forest.<br>This object is applicable only to CMC. |
| **Legal Values** | Any printable text string of up to 254 characters, with no white space. |
| **Default** | <*blank*> |

## cfgADEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables Active Directory user authentication on iDRAC or CMC.<br>If this property is disabled on iDRAC, only local iDRAC authentication is used for user logins. If this property is disabled for CMC, either local CMC or LDAP authentication may be used for user logins. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

## cfgADSCLEnable

| | |
|---|---|
| **Description** | Enables you to log on to the CMC without enabling the Smart Card login.<br>**NOTE:** This object is applicable only to CMC. |
| **Legal Values** | • 1 (Enable) |

- 0 (Disable)

**Default** 0

## cfgADSSOEnable (Read/Write)

**Description** Enables or disables Active Directory single sign-on authentication on iDRAC.

**Legal Values**

- 1 (TRUE)
- 0 (FALSE)

**Default** 0

## cfgADDomainController

**Description** Specifies the AD server from which you want the CMC to obtain user names. Must be used with **cfgADSpecifyServerEnable.**

This object is applicable only to CMC.

**Legal Values** Valid IP address or fully qualified domain name (FQDN).

**Default** None

## cfgADDomainController1 (Read/Write)

**Description** Specifies the LDAP server from which you want the iDRAC to obtain user names .

This object is applicable only to iDRAC.

**Legal Values** A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).

**Default** None

## cfgADDomainController2 (Read/Write)

**Description** Specifies the LDAP server from which you want the iDRAC to obtain user names .

This object is applicable only to iDRAC.

**Legal Values** A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN).

**Default** None

## cfgADDomainController3 (Read/Write)

**Description** Specifies the LDAP server from which you want the iDRAC to obtain user names .

This object is applicable only to iDRAC.

| | |
|---|---|
| **Legal Values** | A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN). |
| **Default** | None |

## cfgADAuthTimeout (Read/Write)

| | |
|---|---|
| **Description** | Specifies the number of seconds to wait for Active Directory authentication requests to complete before timing out.<br>**NOTE:** To modify this property, you must have **Configure iDRAC** permission. |
| **Legal Values** | 15 – 300 seconds |
| **Default** | 120 |

## cfgADType (Read/Write)

| | |
|---|---|
| **Description** | Determines the schema type to use with Active Directory. |
| **Legal Values** | • 1 (Enables Active Directory with the extended schema)<br>• 2 (Enables Active Directory with the standard schema) |
| **Default** | 1 |

## cfgADSpecifyServerEnable

| | |
|---|---|
| **Description** | Allows you to enable or disable and specify an LDAP server or a global catalog server. Use **cfgADDomainController** or **cfgADGlobalCatalog** to specify the IP address.<br>This object is applicable only to CMC. |
| **Legal Values** | • 1 (enabled)<br>• 0 (disabled) |
| **Default** | 0 |

## cfgADGlobalCatalog

| | |
|---|---|
| **Description** | Specifies the Global Catalog server from which you want the CMC to obtain user names. Must be used with **cfgADSpecifyServerEnable.**<br>This object is applicable only to CMC. |
| **Legal Values** | Valid IP address or FQDN |
| **Default** | None |

**Example**

```
racadm getconfig -g cfgActiveDirectory

cfgADEnable=1
cfgADSCLEnable=0
cfgADSSOEnable=0
cfgADRacDomain=
cfgADRootDomain=help
cfgADRacName=
cfgADRacAuthTimeout=300
cfgADType=0x4
cfgADSpecifyServerEnable=1
cfgADDomainController=192.168.1.1
cfgADGlobalCatalog=127.0.0.1
```

## cfgADGlobalCatalog1 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the Global Catalog server from which you want the iDRAC to obtain user names.<br>This object is applicable only to iDRAC. |
| **Legal Values** | A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN). |
| **Default** | None |

## cfgADGlobalCatalog2 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the Global Catalog server from which you want the iDRAC to obtain user names.<br>This object is applicable only to iDRAC. |
| **Legal Values** | A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN). |
| **Default** | None |

## cfgADGlobalCatalog3 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the Global Catalog server from which you want the iDRAC to obtain user names.<br>This object is applicable only to iDRAC. |
| **Legal Values** | A string of up to 254 ASCII characters representing a valid IP address or a fully qualified domain name (FQDN). |
| **Default** | None |

## cfgADCertValidationEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables Active Directory certificate validation as a part of the Active Directory configuration process.<br>This object is applicable only to iDRAC. |
| **Legal Values** | • 1 (TRUE) |

- 0 (FALSE)

**Default** 1

## cfgADDcSRVLookupEnable (Read/Write)

**Description** Configures iDRAC to use pre-configured domain controllers or to use DNS to find the domain controller. If using pre-configured domain controllers, then the domain controllers to use are specified under **cfgAdDomainController1**, **cfgAdDomainController2**, and **cfgAdDomainController3**. iDRAC does not fail over to the specified domain controllers when DNS lookup fails or none of the servers returned by the DNS lookup works.

This object is applicable only to iDRAC.

**Legal Values**

- 1 (TRUE)—use DNS to look up domain controllers
- 0 (FALSE)—use pre-configured domain controllers

**Default** 0

## cfgADDcSRVLookupbyUserdomain (Read/Write)

**Description** Chooses the way the user domain is looked up for Active Directory.

This object is applicable only to iDRAC.

**Legal Values**

- 1 (TRUE)—use user domain as the search domain to look up DCs. The user domain is chosen from the user domain list or entered by the login user.
- 0 (FALSE)—use the configured search domain **cfgADDcSrvLookupDomainName** to look up DCs.

**Default** 1

## cfgADDcSRVLookupDomainName (Read/Write)

**Description** This is the Active Directory Domain to use when **cfgAddcSrvLookupbyUserDomain** is set to **0**.

This object is applicable only to iDRAC.

**Legal Values** String. Maximum length = 254

**Default** Null

### cfgADGcSRVLookupEnable (Read/Write)

| | |
|---|---|
| **Description** | Determines how the global catalog server is looked up. If using pre-configured global catalog servers, then iDRAC uses the values **cfgAdGlobalCatalog1**, **cfgAdGlobalCatalog2**, and **cfgAdGlobalCatalog3**.<br>This object is applicable only to iDRAC. |
| **Legal Values** | • 0(FALSE)—use pre-configured Global Catalog Servers (GCS)<br>• 1(TRUE)—use DNS to look up GCS |
| **Default** | 0 |

### cfgADGcRootDomain (Read/Write)

| | |
|---|---|
| **Description** | The name of the Active Directory root domain used for DNS look up, to locate Global Catalog servers.<br>This object is applicable only to iDRAC. |
| **Legal Values** | String. Maximum length = 254 |
| **Default** | Null |

## cfgLDAP

This group allows you to configure settings related to the Lightweight Directory Access Protocol (LDAP).

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provide information about the objects in the **cfgLDAP** group.

### cfgLdapEnable (Read/Write)

| | |
|---|---|
| **Description** | Turns LDAP service on or off.<br>If this property is disabled, local CMC authentication is used for user logins.<br>**NOTE:** For CMC, enabling this option turns off **cfgADEnable**. |
| **Legal Values** | • 1 (TRUE)— Enable<br>• 0 (FALSE)— Disable |
| **Default** | 0 |

## cfgLdapServer (Read/Write)

| | |
|---|---|
| **Description** | Configures the address of the LDAP Server. IPv4 and IPv6 are supported.<br>**NOTE:** You can specify multiple servers by separating each server with a comma. For example, example.com, sub1.example.com |
| **Legal Values** | String.<br>• For iDRAC: Maximum length = 1024<br>• For CMC: Maximum length = 254 |
| **Default** | Null |

## cfgLdapPort (Read/Write)

| | |
|---|---|
| **Description** | Port of LDAP over SSL. Non-SSL port is not supported. |
| **Legal Values** | 1 - 65535 |
| **Default** | 636 |

## cfgLdapBasedn (Read/Write)

| | |
|---|---|
| **Description** | The Domain Name of the branch of the directory where all searches should start from. |
| **Legal Values** | String. Maximum length = 254 |
| **Default** | Null |

## cfgLdapUserAttribute (Read/Write)

| | |
|---|---|
| **Description** | Specifies the user attribute to search for. It is recommended to be unique within the chosen baseDN, otherwise a search filter must be configured to make sure the uniqueness of the login user. If the userDN cannot be uniquely identified, login fails with error. |
| **Legal Values** | String. Maximum length = 254 |
| **Default** | Null<br>*uid* if not configured. |

## cfgLdapGroupAttribute (Read/Write)

| | |
|---|---|
| **Description** | Specifies which LDAP attribute is used to check for group membership. This should be an attribute of the group class. If not specified, then iDRAC or CMC uses the member and unique member attributes. |
| **Legal Values** | String. Maximum length = 254 |
| **Default** | Null |

## cfgLdapGroupAttributeIsDN (Read/Write)

| | |
|---|---|
| **Description** | For iDRAC: When it is set to 1, iDRAC compares the userDN retrieved from the directory to compare to the members of the group; if it is set to 0, the user name provided by the login user is used to compare to the members of the group. This does not impact the search algorithm for the bind. iDRAC always searches the userDN and uses the userDN to bind.<br>For CMC: If enabled, the CMC performs DN matching, otherwise the CMC uses the user name provided at login for matching. |
| **Legal Values** | • 1 (TRUE)—Use the *userDN* from the LDAP Server<br>• 0 (FALSE)—Use the *userDN* provided by the login user |
| **Default** | 1 |

## cfgLdapBinddn (Read/Write)

| | |
|---|---|
| **Description** | The distinguished name of a user used to bind to the server when searching for the login user's DN. If not provided, an anonymous bind is used. This is optional but is required if anonymous bind is not supported.<br>**NOTE:** If **cfgLDAPBindDN** is [null] and **cfgLDAPBindPassword** is [null], then the CMC attempts an anonymous bind. |
| **Legal Values** | String. Maximum length = 254 |
| **Default** | Null |

## cfgLdapBindpassword (Write Only)

| | |
|---|---|
| **Description** | A bind password to use in conjunction with the bindDN. The bind password is sensitive data, and should be protected. This is optional but is required if anonymous bind is not supported. |
| **Legal Values** | String. Maximum length = 254 |

| | |
|---|---|
| **Default** | Null |

## cfgLdapSearchFilter (Read/Write)

| | |
|---|---|
| **Description** | A valid LDAP search filter. This is used if the user attribute cannot uniquely identify the login user within the chosen baseDN. The search filter only applies to userDN search and not the group membership search. |
| **Legal Values** | • For iDRAC: String of maximum length = 254 characters<br>• For CMC: String of maximum length = 1024 characters |
| **Default** | (objectclass=*)<br>Searches for all objects in tree. |

## cfgLDAPCertValidationEnable (Read/Write)

| | |
|---|---|
| **Description** | Controls certificate validation during SSL handshake. |
| **Legal Values** | • 1 (TRUE)—iDRAC or CMC uses the CA certificate to validate the LDAP server certificate during SSL handshake.<br>• 0 (FALSE)—iDRAC or CMC skips the certificate validation step of SSL handshake. |
| **Default** | 1 |

## cfgLDAPNetworkTimeout

| | |
|---|---|
| **Description** | Configures the network timeout in seconds.<br>This object is applicable only to CMC. |
| **Legal Values** | Positive integer |
| **Default** | 30 seconds |

## cfgLDAPSearchTimeout

| | |
|---|---|
| **Description** | Configures the search timeout in seconds.<br>This object is applicable only to CMC. |
| **Legal Values** | Positive integer |
| **Default** | 120 seconds |

## cfgLDAPSRVLookupEnable

| | |
|---|---|
| **Description** | Configures the CMC to query a DNS server for SRV records. |

| | |
|---|---|
| | This object is applicable only to CMC. |
| **Legal Values** | • 1 (true)<br>• 0 (false) |
| **Default** | 0 |

### cfgLDAPSRVLookupDomainName

| | |
|---|---|
| **Description** | Configures the domain name to be used in the SRV lookup.<br>This object is applicable only to CMC. |
| **Legal Values** | String of maximum length of 254 alphanumeric characters and hyphens. The string must begin with a letter. |
| **Default** | [null] |

### cfgLDAPSRVLookupServiceName (Read/Write)

| | |
|---|---|
| **Description** | Configures the service name to be used in the SRV lookup.<br>This object is applicable only to CMC. |
| **Legal Values** | String of maximum length of 254 characters. |
| **Default** | ldap |

## cfgLdapRoleGroup

For iDRAC, this group allows the user to configure role groups for LDAP.

Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

For CMC, this group configures Generic LDAP Role group descriptions and defines the CMC privileges that LDAP-authenticated users are granted.

**cfgLDAPRoleGroup** is indexed, containing instances numbered from 1 to 5. Each object instance consists of a pair of properties:

- **cfgLDAPRoleGroupDN**: an LDAP distinguished name (DN)
- **cfgLDAPRoleGroupPrivilege**: a CMC privilege map

Each LDAP-authenticated user assumes the total set of CMC privileges assigned to the matching LDAP distinguished names that the user belongs to.

That is, if the user belongs to multiple role group DNs, the user receives all associated privileges for those DNs.

The following sections provide information about the objects in the **cfgLdapRoleGroup** group.

### cfgLdapRoleGroupIndex (Read Only)

| | |
|---|---|
| **Description** | This is the index value of the Role Group Object. |

| | |
|---|---|
| | This object is applicable only for iDRAC. |
| **Legal Values** | An integer between 1 and 5 |
| **Default** | <*instance*> |

### cfgLdapRoleGroupDN (Read/Write)

| | |
|---|---|
| **Description** | This is the Domain Name of the group in this index.<br>For CMC, configure the LDAP distinguished name (DN) for the role group instance. |
| **Legal Values** | String. Maximum length = 1024 |
| **Default** | None |

**Example**

```
racadm getconfig -g cfgLDAPRoleGroup -o cfgLDAPRoleGroupDN
-i 1 cn=everyone,ou=groups,dc=openldap,dc=com
```

### cfgLdapRoleGroupPrivilege (Read/Write)

| | |
|---|---|
| **Description** | A bit–mask defining the privileges associated with this particular group. |
| **Legal Values** | 0x00000000 to 0x000001ff |
| **Default** | 0x000 |

**Example**

```
racadm getconfig -g cfgLDAPRoleGroup -o cfgLDAPRoleGroupPrivilege
-i 1 0x0
```

## cfgLocation

This group defines objects that support physical location properties.Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

This group is applicable to CMC only.

### cfgLocationDatacenter (Read/Write)

| | |
|---|---|
| **Description** | Indicates DataCenter name. |
| **Legal Values** | String of up to 128 ASCII characters |
| **Default** | 0 |

### cfgLocationAisle (Read/Write)

| | |
|---|---|
| **Description** | Indicates aisle where server is located. |
| **Legal Values** | String of up to 128 ASCII characters |

| | |
|---|---|
| **Default** | 0 |

### cfgLocationRack (Read/Write)

| | |
|---|---|
| **Description** | Indicates rack where server is located. |
| **Legal Values** | String of up to 128 ASCII characters |
| **Default** | 0 |

### cfgLocationRackslot (Read/Write)

| | |
|---|---|
| **Description** | Indicates slot where server is located. |
| **Legal Values** | Values from 1 - 255 (1 Byte) |
| **Default** | 0 |

### cfgLocationDevicesize (Read Only)

| | |
|---|---|
| **Description** | Indicates server chassis size. |
| **Legal Values** | Values from 1 - 255 |
| **Default** | 0 |

## cfgStandardSchema

This group contains parameters to configure the Active Directory standard schema settings.

Use this object with the config or getconfig subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** For CMC, you can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provide information about the objects in the **cfgStandardSchema** group.

### cfgSSADRoleGroupIndex (Read Only)

| | |
|---|---|
| **Description** | Index of the Role Group as recorded in the Active Directory. |
| **Legal Values** | An integer between 1 and 5 |
| **Default** | <*instance*> |

### cfgSSADRoleGroupName (Read/Write)

| | |
|---|---|
| **Description** | Name of the Role Group as recorded in the Active Directory forest. |
| **Legal Values** | Any printable text string of up to 254 characters with no white space. |

| | |
|---|---|
| **Default** | *<blank>* |

### cfgSSADRoleGroupDomain (Read/Write)

| | |
|---|---|
| **Description** | Active Directory Domain in which the Role Group resides. |
| **Legal Values** | Any printable text string of up to 254 characters, with no white space. |
| **Default** | *<blank>* |

### cfgSSADRoleGroupPrivilege (Read/Write)

| | |
|---|---|
| **Description** | Use the bit mask numbers listed in the table below to set role-based authority privileges for a Role Group. |
| **Legal Values** | • For iDRAC: 0x00000000 to 0x000001ff<br>• For CMC: 0x00000000 – 0x00000fff |
| **Default** | *<blank>* |

**Example**

```
racadm getconfig -g cfgStandardSchema -i 1

# cfgSSADRoleGroupIndex=1
cfgSSADRoleGroupName=blsys-1
cfgSSADRoleGroupDomain=
cfgSSADRolGroupPrivilege=3081
```

The following table displays the bit masks for Role Group privileges:

| Role Group Privilege | Bit Mask |
|---|---|
| Login to iDRAC | 0x00000001 |
| Configure iDRAC | 0x00000002 |
| Configure Users | 0x00000004 |
| Clear Logs | 0x00000008 |
| Execute Server Control Commands | 0x00000010 |
| Access Virtual Console | 0x00000020 |
| Access Virtual Media | 0x00000040 |
| Test Alerts | 0x00000080 |
| Execute Debug Commands | 0x00000100 |

## cfgChassisPower

This group is applicable only to CMC and contains parameters to display or configure power for the chassis.

Use this object with the config or getconfig subcommands.

To use this object property, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** You can configure any setting that is not preceded by the hash sign (#) in the output. To modify a configurable object, use the **-o** option.

The following sections provide information about the objects in the **cfgChassisPower** group.

## cfgChassisExternalPowerManagementMode

| | |
|---|---|
| **Description** | Allows to enable or disable External Power Management. When this mode is enabled:<br>• The chassis power capacity is set to maximum value.<br>• The server power priorities are set to 1.<br>• These properties cannot be changed by racadm or GUI.<br>When the external power management mode is disabled, the power capacity and server power priorities are preserved. |
| **Legal Values** | |
| **Default** | |

## cfgChassisInPower (Read Only)

| | |
|---|---|
| **Description** | Indicates the cumulative input power consumption data (in watts and BTU/hr) captured from all healthy and functional PSUs in the chassis. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisPeakPower (Read Only)

| | |
|---|---|
| **Description** | The maximum system input power consumption (in watts) since the value was last cleared by a user. |
| **Legal Values** | |
| **Default** | |

## cfgChassisPeakPowerTimestamp (Read Only)

| | |
|---|---|
| **Description** | The timestamp recorded when the peak input power consumption value occurred. |
| **Legal Values** | |
| **Default** | |

## cfgChassisMinPower (Read Only)

| | |
|---|---|
| **Description** | The minimum system input power consumption value (in watts) over the time since the value was last cleared. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisMinPowerTimestamp (Read Only)

| | |
|---|---|
| **Description** | The timestamp recorded when the minimum system power occurred. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisPowerStatus (Read Only)

| | |
|---|---|
| **Description** | Indicates the power status of the chassis. |
| **Legal Values** | • 1 (other)<br>• 2 (unknown)<br>• 3 (OK)<br>• 4 (non-critical)<br>• 5 (critical)<br>• 6 (non-recoverable) |
| **Default** | None |

## cfgChassisRedundantState (Read Only)

| | |
|---|---|
| **Description** | Enables or disables power redundancy for the chassis. |
| **Legal Values** | • 0 (none)<br>• 1 (full) |
| **Default** | None |

## cfgChassisPowerCap (Read/Write)

| | |
|---|---|
| **Description** | Indicates the maximum power consumption limit (in watts) for the entire chassis. The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting. |
| **Legal Values** | 2715 – 16685 watts |
| **Default** | 16685 watts |

## cfgChassisPowerCapF (Read/Write)

| | |
|---|---|
| **Description** | Indicates the maximum power consumption limit (in watts) for the entire chassis. Use **cfgChassisPowerCapF** when power consumption is to be changed regardless of whether server throttling is required. This command generates an error if the value for this setting is lower than the minimum power required for the chassis configuration. |
| **Legal Values** | 2715 – 16685 watts |
| **Default** | 16685 watts |

## cfgChassisPowerCapBTU (Read/Write)

| | |
|---|---|
| **Description** | Indicates the maximum power consumption limit (in BTU/hr) for the entire chassis. The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting. |
| **Legal Values** | 9264 - 56931 BTU/hr |
| **Default** | 43221 BTU/hr |

## cfgChassisPowerCapFBTU (Read/Write)

| | |
|---|---|
| **Description** | Indicates the maximum power consumption limit (in BTU/hr) for the entire chassis. Use **cfgChassisCapFBTU** when power consumption is to be changed regardless of whether server throttling is required. The command generates an error if the value for this setting is lower than the minimum power required for the chassis configuration. |
| **Legal Values** | 9264 - 56931 BTU/hr |
| **Default** | 56931 BTU/hr |

## cfgChassisPowerCapPercent (Read/Write)

| | |
|---|---|
| **Description** | Indicates the power consumption limit as a percentage. The percentage is computed mathematically as the minimum power + (percent * (maximum power - minimum power)). The command generates an error if server throttling is necessary to achieve the power goal based on the value for this setting. |
| **Legal Values** | 16 -100 |
| **Default** | 100 |

## cfgChassisPowerCapFPercent (Read/Write)

| | |
|---|---|
| **Description** | Indicates the power consumption limit as a percentage. The percentage is computed mathematically as the minimum power + (percent * (maximum power - minimum power)). Use **cfgChassisPowerCapFPercent** when power consumption is to be changed regardless of whether server throttling is required. |
| **Legal Values** | 16 - 100 |
| **Default** | 100 |

## cfgChassisRedundancyPolicy (Read/Write)

| | |
|---|---|
| **Description** | Sets the redundancy policy of the chassis. |
| **Legal Values** | • 0 (no redundancy)<br>• 1 (AC redundancy)<br>• 2 (power supply redundancy) |
| **Default** | 0 (no redundancy) |

## cfgChassisDynamicPSUEngagementEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables dynamic engagement. |
| **Legal Values** | • 0 (disabled)<br>• 1 (enabled) |
| **Default** | 0 (disabled) |

## cfgChassisAllow110VACOperation (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables normal chassis power allocations when any power supply unit is connected to 110V AC service. If disabled and 110V power supplies are detected, all subsequent server power allocation requests are denied. In this mode additional servers cannot be powered on, regardless of server priority. |
| **Legal Values** | • 0 (disabled)<br>• 1 (enabled) |
| **Default** | 0 (disabled) |

## cfgChassisMaxPowerConservationMode (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables maximum power conservation mode. When enabled, all servers are immediately reduced to their minimum power levels, and all subsequent server power allocation requests are denied. In this mode, performance of powered on servers may be degraded, and additional servers cannot be powered on, regardless of server priority. |
| **Legal Values** | • 0 (disabled)<br>• 1 (enabled) |
| **Default** | 0 (disabled) |

## cfgChassisPerformanceOverRedundancy (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables server performance over power redundancy. When enabled, this option favors server performance and server powerup, over maintaining power redundancy. When disabled, the system favors power redundancy over server performance. When disabled, then if the power supplies in the chassis do not provide sufficient power, both for redundancy, as well as full performance, then some servers may not be granted sufficient power for full performance, or may not be powered on, in order to maintain redundancy. |
| **Legal Values** | • 0 (disabled)<br>• 1 (enabled) |
| **Default** | 1 (enabled) |

## cfgChassisInMaxPowerCapacity (Read Only)

| | |
|---|---|
| **Description** | Indicates the total chassis power budget (in watts) available for chassis operation. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisInRedundancyReserve (Read Only)

| | |
|---|---|
| **Description** | Indicates the amount of redundant power (in watts) in reserve that can be utilized in the event of an AC grid or PSU failure. This value is 0 if the Redundancy Policy is set to 0 (no redundancy). |
| **Legal Values** | 0 (disabled)<br>1 (enabled) |
| **Default** | None |

## cfgChassisInPowerServerAllocation (Read Only)

| | |
|---|---|
| **Description** | Indicates (in watts) the cumulative power allocated to servers. There is no default as this parameter is very specific to the particular customer configuration. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisInfrastructureInPowerAllocation (Read Only)

| | |
|---|---|
| **Description** | Indicates the estimated cumulative DC output power consumption (in watts), determined from a field replaceable unit (FRU) on the hardware modules in the chassis. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisTotalInPowerAvailable (Read Only)

| | |
|---|---|
| **Description** | Indicates the amount of power (in watts) available for use by the chassis. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisStandbyInPowerCapacity (Read Only)

| | |
|---|---|
| **Description** | Indicates the amount of power (in watts) available for powering up any hardware modules that are either added to the chassis or powered up (if they are already present in the chassis). |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisPowerClear (Write Only)

| | |
|---|---|
| **Description** | Resets **cfgChassisMinPower** and **cfgChassisMaxPowerCapacity**, when set to **1**. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisPowerClearTimestamp (Read Only)

| | |
|---|---|
| **Description** | Time stamp when **cfgChassisMinPower** and **cfgChassisMaxPowerCapacity** were reset. |
| **Legal Values** | None |
| **Default** | None |

## cfgChassisPowerButtonEnable (Read/Write)

| | |
|---|---|
| **Description** | Indicates if the chassis power button is enabled or disabled. |
| **Legal Values** | • 0 (disabled)<br>• 1 (enabled) |
| **Default** | None |

## cfgSystemEnergyConsumptionClear (Write Only)

| | |
|---|---|
| **Description** | Resets energy statistics when set to 1. |
| **Legal Values** | None |
| **Default** | None |

### Examples

- ```
  racadm getconfig -g cfgChassisPower
  # cfgChassisInPower=0 W | 0 BTU/hr
  # cfgChassisPeakPower=0 W
  # cfgChassisPeakPowerTimestamp=06:32:55 01/26/2009
  # cfgChassisMinPower=0 W
  # cfgChassisMinPowerTimestamp=06:32:55 01/26/2009
  # cfgChassisPowerStatus=5
  # cfgChassisRedundantState=0
  cfgChassisPowerCap=16685 W
  cfgChassisPowerCapF=16685 W
  cfgChassisPowerCapBTU=56931 BTU/hr
  cfgChassisPowerCapFBTU=56931 BTU/hr
  cfgChassisPowerCapPercent =100%
  cfgChassisPowerCapFPercent =100%
  cfgChassisRedundancyPolicy=0
  cfgChassisDynamicPSUEngagementEnable=0
  # cfgChassisInMaxPowerCapacity=0 W
  # cfgChassisInRedundancyReserve=0 W
  # cfgChassisInPowerServerAllocation=0 W
  # cfgChassisInfrastructureInPowerAllocation=51 W
  # cfgChassisTotalInPowerAvailable=0 W
  # cfgChassisStandbyInPowerCapacity=0 W
  # cfgChassisPowerClear=******** (Write-Only)
  # cfgChassisPowerClearTimestamp=18:00:00 12/31/1969
  cfgChassisServerBasedPowerMgmtMode=0
  cfgChassisPowerButtonEnable=1
  cfgChassisAllow110VACOperation=0
  cfgChassisMaxPowerConservationMode=0
  cfgChassisPerformanceOverRedundancy=1
  # cfgSystemEnergyConsumptionClear = ****(Write-Only)
  cfgChassisServerBasedPowerMgmtMode=0
  ```
- ```
  racadm config -g cfgChassisPower -o cfgChassisPowerClear 1
  ```

  Clears **cfgChassisMinPower** and **cfgChassisPeakPower**.

# cfgIpmiSol

This group is applicable only for iDRAC and is used to configure the Serial Over LAN (SOL) capabilities of the system.

The following sections provide information about the objects in the **cfgIpmiSol** group.

## cfgIpmiSolEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables SOL. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

## cfgIpmiSolBaudRate (Read/Write)

| | |
|---|---|
| **Description** | Specifies baud rate for serial communication over LAN. |
| **Legal Values** | 9600, 19200, 57600, 115200 |
| **Default** | 115200 |

## cfgIpmiSolMinPrivilege (Read/Write)

| | |
|---|---|
| **Description** | Specifies the minimum privilege level required for SOL access. |
| **Legal Values** | • 2 (User)<br>• 3 (Operator)<br>• 4 (Administrator) |
| **Default** | 4 |

## cfgIpmiSolAccumulateInterval (Read/Write)

| | |
|---|---|
| **Description** | Specifies the typical amount of time that iDRAC waits before transmitting a partial SOL character data packet. This value is 1-based 5ms increments. |
| **Legal Values** | 1 – 255 |
| **Default** | 10 |

### cfgIpmiSolSendThreshold (Read/Write)

| | |
|---|---|
| **Description** | Specifies the SOL threshold limit value and the maximum number of bytes to buffer before sending an SOL data packet. |
| **Legal Values** | 1 – 255 |
| **Default** | 255 |

## cfgIpmiLan

This group is applicable only for iDRAC and is used to configure the IPMI over LAN capabilities of the system.

The following sections provide information about the objects in the **cfgIpmiLan** group.

### cfgIpmiLanEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the IPMI over LAN interface. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

### cfgIpmiLanPrivLimit (Read/Write)

| | |
|---|---|
| **Description** | Specifies the maximum privilege level allowed for IPMI over LAN access. |
| **Legal Values** | • 2 (User)<br>• 3 (Operator)<br>• 4 (Administrator) |
| **Default** | 4 |

### cfgIpmiLanAlertEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables global e-mail alerting. This property overrides all individual e-mail alerting enable/disable properties. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

### cfgIpmiLanEncryptionKey (Read/Write)

| | |
|---|---|
| **Description** | Specifies the IPMI encryption key. |
| **Legal Values** | A string of hexadecimal digits from 0 to 40 characters with no spaces. Only an even amount of digits is allowed. |
| **Default** | 00000000000000000000000000000000000000000 |

### cfgIpmiLanPetCommunityName (Read/Write)

| | |
|---|---|
| **Description** | Specifies the SNMP community name for traps. |
| **Legal Values** | A string of up to 18 characters. |
| **Default** | public |

## cfgIpmiPetIpv6

This group is applicable only for iDRAC and is used to configure IPv6 platform event traps on the managed server.

The following sections provide information about the objects in the **cfgIpmiPetIpv6** group.

### cfgIpmiPetIPv6Index (Read Only)

| | |
|---|---|
| **Description** | Unique identifier for the index corresponding to the trap. |
| **Legal Values** | 1 – 4 |
| **Default** | <*index value*> |

### cfgIpmiPetIPv6AlertDestIpAddr

| | |
|---|---|
| **Description** | Configures the IPv6 alert destination IP address for the trap. |
| **Legal Values** | IPv6 address |
| **Default** | <*blank*> |

### cfgIpmiPetIPv6AlertEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the IPv6 alert destination for the trap. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

# cfgIpmiPef

This group is applicable only for iDRAC and is used to configure the platform event filters available on the managed server.

The event filters can be used to control policy related to actions that are triggered when critical events occur on the managed server.

The following sections provide information about the objects in the **cfgIpmiPef** group.

## cfgIpmiPefName (Read Only)

| | |
|---|---|
| **Description** | Specifies the name of the platform event filter. |
| **Legal Values** | A string of up to 255 characters. |
| **Default** | The name of the index filter. |

## cfgIpmiPefIndex (Read/Write)

| | |
|---|---|
| **Description** | Specifies the index of a specific platform event filter. |
| **Legal Values** | • For iDRAC on Rack and Tower Servers: 1 – 22<br>• For iDRAC Enterprise on Blade Servers: 1 - 9 |
| **Default** | The index value of a platform event filter object. |

## cfgIpmiPefAction (Read/Write)

| | |
|---|---|
| **Description** | Specifies the action that is performed on the managed server when the alert is triggered.<br>**NOTE:** For iDRAC on Rack and Tower servers, this object is read-only for indexes 20, 21, and 22. |
| **Legal Values** | • 0 (None)<br>• 1 (Power Down)<br>• 2 (Reset)<br>• 3 (Power Cycle) |
| **Default** | 0 |

## cfgIpmiPefEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables a specific platform event filter. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 1 |

# cfgIpmiPet

This group is applicable only for iDRAC and is used to configure platform event traps on the managed server.

The following sections provide information about the objects in the **cfgIpmiPet** group.

## cfgIpmiPetIndex (Read Only)

| | |
|---|---|
| **Description** | Unique identifier for the index corresponding to the trap. |
| **Legal Values** | 1 - 4 |
| **Default** | The index value of a specific platform event trap. |

## cfgIpmiPetAlertDestIpAddr (Read/Write)

| | |
|---|---|
| **Description** | Specifies the destination IPv4 address for the trap receiver on the network. The trap receiver receives an SNMP trap when an event is triggered on the managed server. |
| **Legal Values** | A string representing a valid IPv4 address. For example, 192.168.0.67. |
| **Default** | 0.0.0.0 |

## cfgIpmiPetAlertEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables a specific trap. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

# cfgUserDomain

This group is applicable only for iDRAC and is used to configure the Active Directory user domain names. A maximum of 40 domain names can be configured at any given time.

The following sections provide information about the objects in the **cfgUserDomain** group.

## cfgUserDomainIndex (Read Only)

| | |
|---|---|
| **Description** | Represents a specific domain. |
| **Legal Values** | 1 – 40 |
| **Default** | The index value. |

### cfguserdomainname

| | |
|---|---|
| **Description** | Specifies the Active Directory user domain name. |
| **Legal Values** | A string of up to 254 ASCII characters |
| **Default** | <*blank*> |

## cfgServerPower

This group provides several power management features.

The following sections provide information about the objects in the **cfgServerPower** group.

### cfgServerPowerStatus (Read Only)

| | |
|---|---|
| **Description** | Represents the server power state, either ON or OFF.<br>This object is applicable only for iDRAC. |
| **Legal Values** | • 1 (ON)<br>• 0 (OFF) |
| **Default** | 0 |

### cfgServerPowerAllocation (Read Only)

| | |
|---|---|
| **Description** | Represents the available allocated power supply for server usage.<br>**NOTE:** In case of more than one power supply, this object represents the minimum capacity power supply.<br>**NOTE:** This object is applicable only for iDRAC Enterprise on Rack and Tower Servers and not for iDRAC on Blade Servers or CMC. |
| **Legal Values** | A string of up to 32 characters |
| **Default** | <*blank*> |

### cfgServerActualPowerConsumption (Read Only)

| | |
|---|---|
| **Description** | Represents the power consumed by the server at the current time.<br>This object is applicable only for iDRAC. |
| **Legal Values** | Not applicable |
| **Default** | <*blank*> |

## cfgServerPowerCapEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the user specified power budget threshold.<br>This object is Read only for iDRAC Enterprise on Blade Servers. |
| **Legal Values** | • 0 - Disables the user specified power budget threshold<br>• 1 - Enables the user specified power budget threshold |
| **Default** | 1 |

## cfgServerMinPowerCapacity (Read Only)

| | |
|---|---|
| **Description** | Represents the minimum server power capacity on a blade based on the current component inventory.<br>This object is applicable only for iDRAC. |
| **Legal Values** | Not applicable |
| **Default** | *<blank>* |

## cfgServerMaxPowerCapacity (Read Only)

| | |
|---|---|
| **Description** | Represents the maximum server power capacity based on the current component consumption. This object is applicable only for iDRAC. |
| **Legal Values** | Not applicable |
| **Default** | *<blank>* |

## cfgServerPeakPowerConsumption (Read Only)

| | |
|---|---|
| **Description** | Represents the maximum power consumed by the server until the current time.<br>This object is applicable only for iDRAC. |
| **Legal Values** | Not applicable |
| **Default** | *<current server peak power consumption>* |

## cfgServerPeakPowerConsumptionTimestamp (Read Only)

| | |
|---|---|
| **Description** | Specifies time when the maximum power consumption was recorded.<br>This object is applicable only for iDRAC. |
| **Legal Values** | A string of up to 32 characters. |

| | |
|---|---|
| **Default** | Maximum power consumption timestamp. |

## cfgServerPowerConsumptionClear (Write Only)

| | |
|---|---|
| **Description** | Clears the current recorded power statistics.<br>This object is applicable only for iDRAC. |
| **Legal Values** | 1 — Clears the Power Consumption Statistics |
| **Default** | None |

## cfgServerPowerCapWatts (Read/Write)

| | |
|---|---|
| **Description** | Represents the server power threshold in Watts.<br>This object is applicable only for iDRAC.<br>**NOTE:** This value is applicable only if **cfgServerPowerCapEnable** is set to 1. |
| **Legal Values** | None |
| **Default** | Server power threshold in Watts. |

## cfgServerPowerCapBtuhr (Read/Write)

| | |
|---|---|
| **Description** | Represents the server power threshold in BTU/hr.<br>This object is applicable only for iDRAC.<br>**NOTE:** This value is applicable only if **cfgServerPowerCapEnable** is set to 1. |
| **Legal Values** | None |
| **Default** | Server power threshold in BTU/hr. |

## cfgServerPowerCapPercent (Read/Write)

| | |
|---|---|
| **Description** | Represents the server power threshold in percentage.<br>This object is applicable only for iDRAC.<br>**NOTE:** This value is applicable only if **cfgServerPowerCapEnable** is set to 1. |
| **Legal Values** | None |
| **Default** | Server power threshold in percentage. |

## cfgServerPowerLastHourAvg (Read Only)

| | |
|---|---|
| **Description** | Displays the average power value during the last hour.<br>This object is applicable only for iDRAC. |
| **Legal Values** | None |
| **Default** | Average power value during the last hour. |

## cfgServerPowerLastDayAvg (Read Only)

| | |
|---|---|
| **Description** | Displays the average power value during the last day.<br>This object is applicable only for iDRAC. |
| **Legal Values** | None |
| **Default** | Average power value during the last day. |

## cfgServerPowerLastWeekAvg (Read Only)

| | |
|---|---|
| **Description** | Displays the average power value during the last week.<br>This object is applicable only for iDRAC. |
| **Legal Values** | None |
| **Default** | Average power value during the last week. |

## cfgServerPowerLastHourMinPower (Read Only)

| | |
|---|---|
| **Description** | Displays the minimum power value during the last hour.<br>This object is applicable only for iDRAC. |
| **Legal Values** | Not applicable |
| **Default** | Minimum power value during the last hour. |

## cfgServerPowerLastHourMinTime (Read Only)

| | |
|---|---|
| **Description** | Displays the timestamp of minimum power value during the last minute.<br>This object is applicable only for iDRAC. |
| **Legal Values** | Time in the format: DD MM Date HH:MM:SS YYYY<br>cfgServerPowerLastHourMinTime=Mon Sep 26 19:10:56 2011<br>where,<br>• DD= Day of the week<br>• MM= Month<br>• Date=Date<br>• YYYY = Year |

- HH = hour
- MM=Minutes
- SS = Seconds

**Default** Minimum power value during the last minute.

## cfgServerPowerLastHourMaxPower (Read Only)

**Description** Displays the maximum power value during the last hour.
This object is applicable only for iDRAC.

**Legal Values** Not applicable

**Default** Maximum power value during the last hour.

## cfgServerPowerLastHourMaxTime (Read Only)

**Description** Displays the timestamp of maximum power value during the last hour.
This object is applicable only for iDRAC.

**Legal Values** Time in the format: DD MM Date HH:MM:SS YYYY
where,

- DD= Day of the week
- MM= Month
- Date=Date
- YYYY = Year
- HH = hour
- MM=Minutes
- SS = Seconds

**Default** Maximum power value during the last hour.

## cfgServerPowerLastDayMinPower (Read Only)

**Description** Displays the minimum power value during the last day.
This object is applicable only for iDRAC.

**Legal Values** Not applicable

**Default** Minimum power value during the last day.

## cfgServerPowerLastDayMinTime (Read Only)

**Description** Displays the timestamp of minimum power value during the last day.
This object is applicable only for iDRAC.

**Legal Values** Time in the format: DD MM Date HH:MM:SS YYYY

where,

- DD = Day of the week
- MM = Month
- Date = Date
- YYYY = Year
- HH = hour
- MM = Minutes
- SS = Seconds

**Default** Minimum power value during the last day.

## cfgServerPowerLastDayMaxPower (Read Only)

**Description** Displays the maximum power value during the last day.
This object is applicable only for iDRAC.

**Legal Values** Not applicable

**Default** Maximum power value during the last day.

## cfgServerPowerLastDayMaxTime (Read Only)

**Description** Displays the timestamp of maximum power value during the last day.
This object is applicable only for iDRAC.

**Legal Values** Time in the format: DD MM Date HH:MM:SS YYYY
where,

- DD = Day of the week
- MM = Month
- Date = Date
- YYYY = Year
- HH = hour
- MM = Minutes
- SS = Seconds

**Default** Maximum power value during the last day.

## cfgServerPowerLastWeekMinPower (Read Only)

**Description** Displays the minimum power value during the last week.
This object is applicable only for iDRAC.

**Legal Values** Not applicable

**Default** Minimum power value during the last week.

## cfgServerPowerLastWeekMinTime (Read Only)

| | |
|---|---|
| **Description** | Displays the timestamp of minimum power value during the last week.<br>This object is applicable only for iDRAC. |
| **Legal Values** | A string of up to 32 characters.<br>Time in the format: DD MM Date HH:MM:SS YYYY<br>where,<br>• DD = Day of the week<br>• MM = Month<br>• Date = Date<br>• YYYY = Year<br>• HH = hour<br>• MM = Minutes<br>• SS = Seconds |
| **Default** | Minimum power value during the last week |

## cfgServerPowerLastWeekMaxPower (Read Only)

| | |
|---|---|
| **Description** | Displays the maximum power value during the last week.<br>This object is applicable only for iDRAC. |
| **Legal Values** | None |
| **Default** | Maximum power value during the last week. |

## cfgServerPowerLastWeekMaxTime (Read Only)

| | |
|---|---|
| **Description** | Displays the timestamp of maximum power value during the last week.<br>This object is applicable only for iDRAC. |
| **Legal Values** | A string of up to 32 characters.<br>Time in the format: DD MM Date HH:MM:SS YYYY<br>where,<br>• DD = Day of the week<br>• MM= Month<br>• Date = Date<br>• YYYY = Year<br>• HH = hour<br>• MM = Minutes<br>• SS = Seconds |
| **Default** | Maximum power value during the last week. |

## cfgServerPowerInstHeadroom (Read Only)

| | |
|---|---|
| **Description** | Displays the difference between the available power and the current power consumption.<br>This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers. |
| **Legal Values** | Not applicable |
| **Default** | Difference between the available power and the current power consumption. |

## cfgServerPowerPeakHeadroom (Read Only)

| | |
|---|---|
| **Description** | Displays the difference between the available power and the peak power consumption.<br>This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC. |
| **Legal Values** | None |
| **Default** | Difference between the available power and the peak power consumption. |

## cfgServerActualAmperageConsumption (Read Only)

| | |
|---|---|
| **Description** | Displays the current power consumption.<br>This object is applicable only for iDRAC. |
| **Legal Values** | Not applicable |
| **Default** | Current power consumption. |

## cfgServerPeakAmperage (Read Only)

| | |
|---|---|
| **Description** | Displays the current peak power consumption. |
| **Legal Values** | Not applicable |
| **Default** | Current peak power consumption. |

## cfgServerPeakAmperageTimeStamp (Read Only)

| | |
|---|---|
| **Description** | Displays the timestamp of the current peak power consumption.<br>This object is applicable only for iDRAC. |
| **Legal Values** | A string of up to 32 characters.<br>Time in the format: DD MM Date HH:MM:SS YYYY |

where,

- DD = Day of the week
- MM = Month
- Date = Date
- YYYY = Year
- HH = hour
- MM = Minutes
- SS = Seconds

**Default** Timestamp of the current peak power consumption.

## cfgServerCumulativePowerConsumption (Read Only)

**Description** Displays the cumulative power consumption.
This object is applicable only for iDRAC.

**Legal Values** Not applicable

**Default** Cumulative power consumption.

## cfgServerCumulativePowerConsumptionTimeStamp (Read Only)

**Description** Displays the timestamp of the cumulative power consumption.
This object is applicable only for iDRAC.

**Legal Values** A string of up to 32 characters.
Time in the format: DD MM Date HH:MM:SS YYYY
where,

- DD = Day of the week
- MM= Month
- Date=Date
- YYYY = Year
- HH = hour
- MM=Minutes
- SS = Seconds

**Default** Timestamp of the cumulative power consumption.

## cfgServerCumulativePowerClear (Write Only)

**Description** Clears the **cfgServerCumulativePowerConsumption** and **cfgServerCumulativePowerConsumptionTimeStamp** values.
This object is applicable only for iDRAC.

**Legal Values** 1

**Default** None

### cfgServerPowerPCIeAllocation (Read/Write)

| | |
|---|---|
| **Description** | Amount of power allocated to the PCIe cards.<br>This object is applicable for iDRAC Enterprise only for specific Blade Servers and not for iDRAC on Rack and Tower Servers or CMC.<br>You must have Administrator privileges to modify the value for this object. |
| **Legal Values** | 0W: For platforms that do not support PCIe cards.<br>100W - 500W: For platforms that support PCIe cards. |
| **Default** | 0: For platforms that do not support PCIe cards.<br>500W: For platforms that support PCIe cards. |

## cfgKVMInfo

This group is used to display information for and configure the iKVM. This object is applicable only for CMC.

Use this object with the config or getconfig subcommands.

To use this object property, you must have **Chassis Configuration Administrator** privilege.

### cfgKVMAccessToCMCEnable

| | |
|---|---|
| **Description** | Enables or disables the Dell CMC Console access on the iKVM. |
| **Legal Values** | • 1 (enable)<br>• 0 (disable) |
| **Default** | None |

### cfgKVMFrontPanelEnable

| | |
|---|---|
| **Description** | Enables or disables front panel access on the iKVM. |
| **Legal Values** | • 1 (enable)<br>• 0 (disable) |
| **Default** | None |

**Example**

```
racadm getconfig -g cfgKVMInfo

cfgKVMAccessToCMCEnable=1
cfgKVMFrontPanelEnable=1
```

## cfgAlerting

This group is enables or disables SNMP event trap alerting and sets the event filter.

This object is applicable only for CMC.

Use this object with the config or getconfig subcommands.

To use this object property, you must have **Chassis Configuration Administrator** privilege.

## cfgAlertingEnable

| | |
|---|---|
| **Description** | Enables or disables event traps on the CMC. |
| **Legal Values** | • 1 (true)<br>• 0 (false) |
| **Default** | None |

## cfgAlertingFilterMask

| | |
|---|---|
| **Description** | Sets the event filter. |
| **Legal Values** | Hex values 0x0 – 0x1fffffff |
| **Default** | 0x17ff8db |

## cfgAlertingSourceEmailName

| | |
|---|---|
| **Description** | Specifies the e-mail address used to send e-mail notifications when an event occurs. |
| **Legal Values** | None |
| **Default** | None |

**Examples**

```
racadm getconfig -g cfgAlerting -o cfgAlertingSourceEmailName


racadm config -g cfgAlerting -o cfgAlertingSourceEmailName user@home.com


Object value modified successfully.
```

## cfgLcdLocale

| | |
|---|---|
| **Description** | Specifies the Language (locale) for the Blade Chassis LCD interface. |
| **Legal Values** | de, fr, en, es, ja, zh-cn. |
| **Default** | en |
| **Example** | `racadm config -g cfgLcdInfo -o cfgLcdLocale en`<br>`Object value modified successfully.` |

# cfgServerPowerSupply

This group is applicable only for iDRAC and contains information related to the power supplies. The following sections provide information about the objects in the **cfgServerPowerSupply** group.

The **cfgServerPowerSupply** object group is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

**NOTE:** The **getconfig** subcommand always shows eight **cfgServerPowerSupply** indexes, even if two power supplies are installed in the system or the system supports a maximum of two power supply units. For the uninstalled and unsupported units, all the objects in the **cfgServerPowerSupply** group displays a value of 0.

## cfgServerPowerSupplyIndex

| | |
|---|---|
| **Description** | Specifies index of the power supply unit.<br>**NOTE:** Indexes from 1 – 8 are supported to support up to 8 power supply units. If any power supply unit is not present, cfgServerPowerSupplyOnlineStatus is absent and for all the other properties, it is 0. |
| **Legal Values** | Integer from 1 - 8 |
| **Default** | None |

## cfgServerPowerSupplyMaxInputPower (Read Only)

| | |
|---|---|
| **Description** | Displays the AC input rated power in Watts. |
| **Legal Values** | A string of up to 32 characters. |
| **Default** | 0 |

## cfgServerPowerSupplyMaxOutputPower (Read Only)

| | |
|---|---|
| **Description** | Displays the AC output rated power in Watts. |
| **Legal Values** | A string of up to 32 characters. |
| **Default** | 0 |

## cfgServerPowerSupplyOnlineStatus (Read Only)

| | |
|---|---|
| **Description** | Displays the status of the power supply unit. |
| **Legal Values** | • 0 - Present<br>• 1 - Absent<br>• 2 - Failure<br>• 3 - Predictive failure |
| **Default** | 0 |

### cfgServerPowerSupplyFwVer (Read Only)

| | |
|---|---|
| **Description** | Displays the firmware version of the power supply unit, in the format x.xx.xxx. |
| **Legal Values** | A string up to 8 characters. |
| **Default** | Null |

### cfgServerPowerSupplyCurrentDraw (Read Only)

| | |
|---|---|
| **Description** | Displays the instantaneous current consumption in 0.1 Amps. |
| **Legal Values** | A string of up to 32 characters. |
| **Default** | 0 |

### cfgServerPowerSupplyType

| | |
|---|---|
| **Description** | Displays whether the power supply is AC or DC. |
| **Legal Values** | A string of up to 32 characters. |
| **Default** | 0 |

## cfgIPv6LanNetworking

This group is used to configure the IPv6 over LAN networking capabilities.

Use this object with the **config** or **getconfig** subcommands.

To use this object property for CMC, you must have **Chassis Configuration Administrator** privilege.

**NOTE:** Use the -m option to apply this setting to iDRAC.

The following sections provide information about the objects in the **cfgIPv6LanNetworking** group.

### cfgIPv6Enable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables iDRAC or CMC IPv6 stack. |
| **Legal Values** | • 1 (TRUE)<br>• 0 (FALSE) |
| **Default** | 0 |

### cfgIPv6Address

| | |
|---|---|
| **Description** | Assigns a static IPv6 address to the CMC. This property is used only if **cfgIPv6AutoConfig** is set to 0 (false). |

**NOTE:** This object is applicable only for CMC.

| | |
|---|---|
| **Legal Values** | A string representing a valid IPv6 address. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF |
| **Default** | :: |

## cfgIPv6Address1 (Read/Write)

| | |
|---|---|
| **Description** | Specifies iDRAC or CMC IPv6 address. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Gateway (Read/Write)

| | |
|---|---|
| **Description** | iDRAC or CMC gateway IPv6 address.<br>**NOTE:** For CMC, this property is used only if **cfgIPv6AutoConfig** is set to 0 (false.) |
| **Legal Values** | Specifies string representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6PrefixLength (Read/Write)

| | |
|---|---|
| **Description** | Specifies the prefix length for iDRAC or CMC IPv6 address.<br>**NOTE:** For CMC, this property is used only if **cfgIPv6AutoConfig** is set to 0 (false) |
| **Legal Values** | For iDRAC: 1 - 128 For CMC: 0 - 128 |
| **Default** | 64 |

## cfgIPv6AutoConfig (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the **IPv6 Auto Configuration** option.<br>**NOTE:** If this value is set to 0, the CMC disables auto configuration and statically assigns IPv6 addresses. If this value is set to 1, the CMC obtains address and route information using stateless auto configuration and DHCPv6.<br>**NOTE:** The CMC uses its MAC address for its DUID (DUID-LL) when communicating with a DHCPv6 server. |
| **Legal Values** | • 1 (TRUE) |

- 0 (FALSE)

**Default**

- For iDRAC: 0
- For CMC: 1

## cfgIPv6LinkLocalAddress (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 link local address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | Specifies a string representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address2 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 second address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | A string representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address3 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 third address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address4 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 fourth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address5 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 fifth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address6 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 sixth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address7 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 seventh address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address8 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 eighth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address9 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 ninth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address10 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 tenth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address11 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 eleventh address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |

| | |
|---|---|
| **Default** | :: |

## cfgIPv6Address12 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 twelfth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address13 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 thirteenth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address14 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 fourteenth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6Address15 (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 fifteenth address.<br>This object is applicable only for iDRAC. |
| **Legal Values** | String representing a valid IPv6 entry. |
| **Default** | :: |

## cfgIPv6DNSServersFromDHCP6 (Read/Write)

| | |
|---|---|
| **Description** | Specifies whether **cfgIPv6DNSServer1** and **cfgIPv6DNSServer2** are static or DHCP IPv6 addresses.<br>**NOTE:** This property is used only if **cfgIPv6AutoConfig** is set to 1 (true). |
| **Legal Values** | 1 (TRUE) 0 (FALSE) |
| **Default** | For iDRAC: 0 For CMC: 1 |

### cfgIPv6DNSServer1 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the IPv6 DNS server address.<br>**NOTE:** This property is used only if **cfgIPv6DNSServersFromDHCP6** is set to 0 (false). |
| **Legal Values** | A string representing a valid IPv6 entry. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF |
| **Default** | :: |

### cfgIPv6DNSServer2 (Read/Write)

| | |
|---|---|
| **Description** | Specifies the IPv6 DNS server address.<br>**NOTE:** This property is only valid if **cfgIPv6DNSServersFromDHCP6** is set to 0 (false). |
| **Legal Values** | A string representing a valid IPv6 entry. For example, 2001:DB8:1234:5678:9ABC:DE11:C00C:BEEF |
| **Default** | :: |

**Example**

```
$ racadm getconfig -g cfgIPv6LanNetworking
cfgIPv6Enable=1
cfgIPv6AutoConfig=1
cfgIPv6Address=::
cfgIPv6PrefixLength=64
cfgIPv6Gateway=::
cfgIPv6DNSServersFromDHCP6=1
cfgIPv6DNSServer1=::
cfgIPv6DNSServer2=::
```

If both IPv4 and IPv6 are enabled on the CMC, IPv6 DNS servers take priority. The order of preference for DNS servers is:

- cfgIPv6DNSServer1
- cfgIPv6DNSServer2
- cfgDNSServer1
- cfgDNSServer2

## cfgIpv6StaticLanNetworking

This group is used to configure the IPv6 Static over LAN networking capabilities

**NOTE:** This is supported for iDRAC only.

.

## cfgIPv6StaticEnable (Read or Write)

| | |
|---|---|
| **Description** | Enables or disables the static IPv6 stack. |
| **Legal Values** | • 0 — Disabled<br>• 1 — Enabled |
| **Default** | 0 — Disabled |

**NOTE:** If this object is modified, then the object cfgIPv6Enable is also modified.

## cfgIPv6StaticAddress1 (Read or Write)

| | |
|---|---|
| **Description** | Returns or sets the static IPv6 address1.<br>**NOTE:** Only sets the current IPv4 address if cfgNicUseDhcp is set to 0 (false). |
| **Legal Values** | Any IPv6 address |
| **Default** | |

## cfgIPv6StaticGateway (Read or Write)

| | |
|---|---|
| **Description** | Returns or sets gateway static IPv6 address. |
| **Legal Values** | Any IPv6 address |
| **Default** | |

## cfgIPv6StaticPrefixLength (Read or Write)

| | |
|---|---|
| **Description** | The prefix length for static IPv6 address 1. |
| **Legal Values** | 0 to 128 |
| **Default** | 64 |

## cfgIPv6StaticAutoConfig (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the static IPv6 AutoConfig option. |
| **Legal Values** | • 0 — Disabled<br>• 1 — Enabled |
| **Default** | 1 — Enabled |

**NOTE:** If this object is modified, then the object cfgIPv6Autoconfig is also modified.

### cfgIPv6StaticDNSServersFromDHCP6 (Read or Write)

| | |
|---|---|
| **Description** | Specifies the DNS server static IP addresses. |
| **Legal Values** | • 0 — DNS Server should be configured as static.<br>• 1 — The device will get the DNS servers from DHCPv6. |
| **Default** | 0— Disabled |

### cfgIPv6StaticDNSServer1 (Read or Write)

| | |
|---|---|
| **Description** | Specifies the DNS server 1 static IPv6 address. |
| **Legal Values** | Any IPv6 Address |
| **Default** | |

### cfgIPv6StaticDNSServer2 (Read or Write)

| | |
|---|---|
| **Description** | Specifies the DNS server 2 static IPv6 address. |
| **Legal Values** | Any IPv6 address |
| **Default** | |

## cfgCurrentLanNetworking (Read Only)

This group displays the current CMC NIC properties.

This object property is applicable only for CMC. Use this object with the getconfig subcommand.

To use this object property, you must have **CMC Login User** privilege.

**Synopsis**

```
racadm getconfig -g cfgCurrentLanNetworking
```

### cfgNicCurrentIpAddress

| | |
|---|---|
| **Description** | Displays the static IP address to the CMC. |
| **Legal Values** | |
| **Default** | |

### cfgNicCurrentNetmask

| | |
|---|---|
| **Description** | Displays the static subnet mask for the CMC IP address |
| **Legal Values** | |
| **Default** | |

## cfgNicCurrentGateway

Displays the static gateway for the CMC IP address.

| | |
|---|---|
| **Description** | Displays the static gateway for the CMC IP address. |
| **Legal Values** | |
| **Default** | |

## cfgNicCurrentDhcpWasUsed

| | |
|---|---|
| **Description** | Indicates whether DHCP is used to configure the NIC. |
| **Legal Values** | 0 – address is static.<br>1– address was obtained from the DHCP server. |
| **Default** | None |

## cfgNicCurrentVlanEnable (Read Only)

| | |
|---|---|
| **Description** | Indicates whether the VLAN is enabled. |
| **Legal Values** | 0- VLAN is disabled<br>1- VLAN is enabled |
| **Default** | None |

## cfgNicCurrentVlanID (Read Only)

| | |
|---|---|
| **Description** | Indicates the Current Virtual Lan ID |
| **Legal Values** | Integer |
| **Default** | None |

## cfgNicCurrentVlanPriority (Read Only)

| | |
|---|---|
| **Description** | Indicates the Current Virtual Lan Priority. |
| **Legal Values** | Integer |
| **Default** | None |

## cfgDNSCurrentServer1

| | |
|---|---|
| **Description** | Displays the IP address for DNS server 1. |
| **Legal Values** | A Valid IPv4 DNS IP |
| **Default** | None |

### cfgDNSCurrentServer2

| | |
|---|---|
| **Description** | Displays the IP address for DNS server 2. |
| **Legal Values** | |
| **Default** | |

### cfgDNSCurrentDomainName

| | |
|---|---|
| **Description** | Displays the DNS domain name. |
| **Legal Values** | |
| **Default** | |

### cfgNicCurrentIPv4Enabled

| | |
|---|---|
| **Description** | Indicates whether IPv4 is enabled on the CMC. If the current property value is set to 0 (false), the remote network interfaces to the CMC are not accessible over IPv4. |
| **Legal Values** | |
| **Default** | |

**Example**

```
racadm getconfig -g cfgCurrentLanNetworking
# cfgNicCurrentIPv4Enabled=1
# cfgNicCurrentIpAddress=143.166.152.116
# cfgNicCurrentNetmask=255.255.255.0
# cfgNicCurrentGateway=143.166.152.1
# cfgNicCurrentDhcpWasUsed=0
# cfgNicCurrentVlanEnable=0
# cfgNicCurrentVlanID=1
# cfgNicCurrentVlanPriority=0
# cfgDNSCurrentServer1=192.168.0.5
# cfgDNSCurrentServer2=192.168.0.6
# cfgDNSCurrentDomainName=MYDOMAIN
```

## cfgCurrentIPv6LanNetworking (Read Only)

This group displays the current CMC IPv6 properties.

This object property is applicable only for CMC. Use this object with the **getconfig** subcommand.

To use this object property, you must have **CMC Login User** privilege.

## cfgCurrentIPv6Enabled

| | |
|---|---|
| **Description** | Indicates whether IPv6 is enabled on the CMC. If the current property value is set to 0 (false), the remote network interfaces to the CMC are not accessible over IPv6. |
| **Legal Values** | |
| **Default** | |

## cfgCurrentIPv6AutoConfigWasUsed

| | |
|---|---|
| **Description** | Indicates whether auto configuration is used to obtain IPv6 settings, including stateless IPv6 address(es) and gateway. |
| **Legal Values** | 0 (static addressing is used)<br>1 (address is obtained from the DHCPv6 server and/or stateless auto configuration) |
| **Default** | None |

## cfgCurrentLinkLocalAddress

| | |
|---|---|
| **Description** | Displays the current IPv6 link-local address of the CMC. |
| **Legal Values** | |
| **Default** | |

## cfgCurrentIPv6Address1

| | |
|---|---|
| **Description** | Displays the current IPv6 addresses. This property displays up to 15 global IPv6 addresses, including stateful and stateless addresses. |
| **Legal Values** | |
| **Default** | |

## cfgCurrentIPv6Gateway

| | |
|---|---|
| **Description** | Displays the current IPv6 gateway. |
| **Legal Values** | |
| **Default** | |

### cfgCurrentIPv6DNSServersFromDHCP6

| | |
|---|---|
| **Description** | Indicates whether the DNS server addresses are assigned from the DHCPv6 server. |
| **Legal Values** | |
| **Default** | |

### cfgCurrentIPv6DNSServer1

| | |
|---|---|
| **Description** | Displays the IPv6 address for DNS server 1. |
| **Legal Values** | |
| **Default** | |

### cfgCurrentIPv6DNSServer2

| | |
|---|---|
| **Description** | Displays the IPv6 address for DNS server 2. |
| **Legal Values** | None |
| **Default** | None |

**Example**

```
racadm getconfig -g cfgCurrentIPv6LanNetworking
# cfgCurrentIPv6Enabled=1
# cfgCurrentIPv6AutoConfigWasUsed=1
# cfgCurrentLinkLocalAddress=fe80::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Address1=2009:123::e48f:9dd8:6f51:a669/64
# cfgCurrentIPv6Address2=fd88:1::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Address3=fd88:2::21e:4fff:fe1f:5371/64
# cfgCurrentIPv6Gateway=fe80::21c:23ff:fe77:6215
# cfgCurrentIPv6DNSServersFromDHCP6=1
# cfgCurrentIPv6DNSServer1=2009:123::1
# cfgCurrentIPv6DNSServer2=::
```

## cfgIPv6URL

This group specifies properties used to configure iDRAC IPv6 URL.

The following sections provide information about the objects in the **cfgIPv6URL** group.

### cfgIPv6URLstring (Read Only)

| | |
|---|---|
| **Description** | The iDRAC IPv6 URL. |
| **Legal Values** | A string of up to 80 characters. |
| **Default** | *<blank>* |

## cfgIpmiSerial

This group specifies properties used to configure the IPMI serial interface of the BMC.

It is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers or CMC.

## cfgIpmiSerialBaudRate (Read/Write)

| | |
|---|---|
| **Description** | Specifies the baud rate for a serial connection over IPMI. |
| **Legal Values** | 9600, 19200, 57600, 115200 |
| **Default** | 57600 |

## cfgIpmiSerialConnectionMode (Read/Write)

| | |
|---|---|
| **Description** | When the iDRAC **cfgSerialConsoleEnable** property is set to 0 (disabled), the iDRAC serial port becomes the IPMI serial port. This property determines the IPMI defined mode of the serial port.<br>In Basic mode, the port uses binary data with the intent of communicating with an application program on the serial client. In Terminal mode, the port assumes that a dumb ASCII terminal is connected and allows very simple commands to be entered. |
| **Legal Values** | • 0 (Terminal)<br>• 1 (Basic) |
| **Default** | 1 |

## cfgIpmiSerialChanPrivLimit (Read/Write)

| | |
|---|---|
| **Description** | Specifies the maximum privilege level allowed on the IPMI serial channel. |
| **Legal Values** | • 2 (User)<br>• 3 (Operator)<br>• 4 (Administrator) |
| **Default** | 4 |

## cfgIpmiSerialFlowControl (Read/Write)

| | |
|---|---|
| **Description** | Specifies the flow control setting for the IPMI serial port. |
| **Legal Values** | • 0 (None)<br>• 1 (CTS/RTS) |
| **Default** | 1 |

## cfgIpmiSerialHandshakeControl (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the IPMI terminal mode handshake control. |
| **Legal Values** | • 0 (FALSE)<br>• 1 (TRUE) |
| **Default** | 1 |

## cfgIpmiSerialLineEdit (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables line editing on the IPMI serial interface. |
| **Legal Values** | • 0 (FALSE)<br>• 1 (TRUE) |
| **Default** | 1 |

## cfgIpmiSerialEchoControl (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables echo control on the IPMI serial interface. |
| **Legal Values** | • 0 (FALSE)<br>• 1 (TRUE) |
| **Default** | 1 |

## cfgIpmiSerialDeleteControl (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables delete control on the IPMI serial interface. |
| **Legal Values** | • 0 (FALSE)<br>• 1 (TRUE) |
| **Default** | 0 |

## cfgIpmiSerialNewLineSequence (Read/Write)

| | |
|---|---|
| **Description** | Specifies the newline sequence specification for the IPMI serial interface. |
| **Legal Values** | • 0 (None)<br>• 1 (CR-LF)<br>• 2 (NULL) |

- 3 (<*CR*>)
- 4 (<*LF-CR*>)
- 5 (<*LF*>)

**Default** 1

### cfgIpmiSerialInputNewLineSequence (Read/Write)

**Description** Specifies the input newline sequence specification for the IPMI serial interface.

**Legal Values**

- 1 (ENTER)
- 2 (NULL)

**Default** 1

## cfgSmartCard

This group specifies properties used to support access to iDRAC using a smart card. This group is applicable only for iDRAC.

The following sections provide information about the objects in the **cfgSmartCard** group.

### cfgSmartCardLogonEnable (Read/Write)

**Description** Enables, disables, or enables with Remote RACADM support for access to iDRAC using a smart card.

**NOTE:** Enabling with remote RACADM is only applicable for iDRAC on Rack and Tower Servers.

**Legal Values**

- 0 (Disabled)
- 1 (Enabled)
- 2 (Enabled with Remote RACADM) - This is not applicable for iDRAC Enterprise on Blade Servers.

**Default** 0

### cfgSmartCardCRLEnable (Read/Write)

**Description** Enables or disables the Certificate Revocation List (CRL).

This object is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

**Legal Values**

- 1 (TRUE)
- 0 (FALSE)

**Default** 0

# cfgNetTuning

This group enables users to configure the advanced network interface parameters for the RAC NIC or CMC. When configured, the updated settings may take up to a minute to become active.

The following sections provide information about the objects in the **cfgNetTuning** group.

This group is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

**CAUTION: Use extra precaution when modifying properties in this group. Inappropriate modification of the properties in this group can result in your RAC NIC become inoperable.**

## cfgNetTuningNicSpeed

| | |
|---|---|
| **Description** | Specifies the speed for the CMC NIC. This property is used only if **cfgNetTuningNicAutoNeg** is set to 0. |
| **Legal Values** | 10, 100, or 1000 |
| **Default** | 100 |

## cfgNetTuningNicAutoneg (Read/Write)

| | |
|---|---|
| **Description** | Enables autonegotiation of physical link speed and duplex. If enabled, autonegotiation takes priority over other values set in this group. |
| **Legal Values** | • 0 = Auto Negotiation is Disabled<br>• 1 = Auto Negotiation is Enabled |
| **Default** | 1 |

**Example**

```
racadm getconfig -g cfgNetTuning

cfgNetTuningNicSpeed=100
cfgNetTuningNicFullDuplex=1
cfgNetTuningNicMtu=1500
cfgNetTuningNicAutoneg=1
```

## cfgNetTuningNic100MB (Read/Write)

| | |
|---|---|
| **Description** | Specifies the speed to use for the RAC NIC. This property is not used if **cfgNetTuningNicAutoNeg** is set to 0 (disabled). |
| **Legal Values** | • 0 (10 MBit)<br>• 1 (100 MBit)<br>• 2 (1000 MBit) |
| **Default** | 1 |

### cfgNetTuningNicFullDuplex (Read/Write)

| | |
|---|---|
| **Description** | Specifies the duplex setting for the RAC or CMC NIC. This property is used only if the **cfgNetTuningNicAutoNeg** is set to 0 (disabled). |
| **Legal Values** | • 0 (Half Duplex)<br>• 1 (Full Duplex) |
| **Default** | 1 |

### cfgNetTuningNicMtu (Read/Write)

| | |
|---|---|
| **Description** | The size in bytes of the maximum transmission unit used by iDRAC or CMC NIC. |
| **Legal Values** | 576 – 1500 |
| **Default** | 1500 |

**NOTE:** IPv6 requires a minimum MTU of 1280. If IPv6 is enabled, and **cfgNetTuningMtu** is set to a lower value, the CMC uses an MTU of 1280.

## cfgSensorRedundancy

This group is used to set the power supply redundancy. This group is applicable only for iDRAC.

The following sections provide information about the objects in the **cfgSensorRedundancy** group.

This group is applicable only for iDRAC on Rack and Tower Servers and not for iDRAC Enterprise on Blade Servers.

### cfgSensorRedundancyIndex (Read Only)

| | |
|---|---|
| **Description** | Specifies index for the sensor redundancy group being read. Only power supply redundancy is supported. |
| **Legal Values** | 1 |
| **Default** | None |

### cfgSensorRedundancyPolicy (Read/Write)

| | |
|---|---|
| **Description** | Sets the power supply redundancy policy. |
| **Legal Values** | • 2 - N/A, for sytems that are not supported<br>• 3 - Non Redundant<br>• 4 - 1+1 Redundant<br>• 4 - 2+1 Redundant<br>• 16 - 2+2 Redundant |
| **Default** | Any legal value at that particular execution instance. |

### cfgSensorRedundancyCapabilities (Read Only)

| | |
|---|---|
| **Description** | Returns the redundancy capabilities in the form of a bitmask. This bitmask allows the user to know which values can be set for **cfgSensorRedundancyPolicy**. |
| **Legal Values** | A bit mask. More than 1-bit can be set at a time to indicate multiple redundancy support.<br>• 0- N/A, for sytems that are not supported<br>• 1- Non Redundant<br>• 2- 1+1 - Redundant<br>• 4- 2+1 - Redundant<br>• 8- 2+2 - Redundant |
| **Default** | 0 |

### cfgSensorRedundancyStatus (Read Only)

| | |
|---|---|
| **Description** | Indicates the redundancy status. The status is N/A on platforms that does not support the power supply sensor redundancy. |
| **Legal Values** | String:<br>• N/A<br>• Full<br>• Lost<br>• Degraded |
| **Default** | None |

## cfgVFlashSD

This group is used to configure the properties for the Virtual Flash SD card. This group is applicable only for iDRAC.

**NOTE:** If the vFlash card is present but is not enabled, the query for any property under this group displays:

```
ERROR: vFlash is not enabled.
```

To view the properties of this group, enable the vFlash using the command:

```
racadm config -g cfgvFlashSD -o cfgvFlashSDEnable 1
```

The following sections provide information about the objects in the **cfgVFlashSD** group.

## cfgVFlashSDEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the vFlash SD card.<br>**NOTE:** Disabling vFlashPartition by setting cfgVFlashSDEnable to 0 does not require a license. |
| **Legal Values** | • 0 (Disable)<br>• 1 (Enable) |
| **Default** | 1 |

## cfgVFlashSDSize (Read Only)

| | |
|---|---|
| **Description** | Displays the size of the vFlash SD card in megabytes (MB). |
| **Legal Values** | A string of upto 64 characters. |
| **Default** | <*card size*> |

## cfgVFlashSDLicensed (Read Only)

| | |
|---|---|
| **Description** | Displays whether a SD card or vFlash SD card is inserted. The vFlash SD card supports the new enhanced vFlash features and the SD card supports only the limited vFlash features. |
| **Legal Values** | • 0 (SD card is inserted)<br>• 1 (vFlash SD card is inserted) |
| **Default** | None |

## cfgVFlashSDAvailableSize (Read Only)

| | |
|---|---|
| **Description** | Displays the available space (in MB) on the vFlash SD card that can be used to create new partitions. |
| **Legal Values** | A string of up to 64 characters. |
| **Default** | If the card is not initialized, default is 0. If initialized, displays the unused space on the card. |

## cfgVFlashSDHealth (Read Only)

| | |
|---|---|
| **Description** | Displays the current health status of the vFlash SD card. |
| **Legal Values** | String:<br>• OK<br>• Warning<br>• Critical |

- Unknown

| | |
|---|---|
| **Default** | OK |

### cfgVFlashSDWriteProtect (Read Only)

| | |
|---|---|
| **Description** | Displays whether the physical write-protect latch on the vFlash SD card is enabled or disabled. |
| **Legal Values** | • 0 (vFlash is not write-protected)<br>• 1 (vFlash is write-protected) |
| **Default** | None |

## cfgVFlashPartition

This group is used to configure properties for individual partitions on the vFlash SD Card. Up to 16 partitions are supported, indexed from 1 to 16. This group is applicable only for iDRAC.

**NOTE:** For SD cards, the index value is limited to 1 because only a single partition of size 256 MB is allowed.

The following sections provide information about the objects in the **cfgVFlashPartition** group.

### cfgVFlashPartitionIndex (Read Only)

| | |
|---|---|
| **Description** | The index value of the partition. |
| **Legal Values** | Integer from 1-16 |
| **Default** | None |

### cfgVFlashPartitionSize (Read Only)

| | |
|---|---|
| Description | Displays the size of the partition. |
| Legal Values | 1 MB to 4 GB |
| **Default** | **None** |

### cfgVFlashPartitionEmulationType (Read/Write)

| | |
|---|---|
| **Description** | Displays the emulation type for the partition. |
| **Legal Values** | String:<br>• HDD<br>• Floppy<br>• CDROM |
| **Default** | None |

### cfgVFlashPartitionFlashOSVolLabel

| | |
|---|---|
| **Description** | Displays the label for the partition that is visible to the operating system. |
| **Legal Values** | An alphanumeric string of up to six characters. |
| **Default** | None |

### cfgVFlashPartitionFormatType (ReadOnly)

| | |
|---|---|
| **Description** | Displays the format type of the partition. |
| **Legal Values** | String:<br>• FAT16<br>• FAT32<br>• EXT2<br>• EXT3<br>• CD<br>• RAW |
| **Default** | None |

### cfgVFlashPartitionAccessType (Read/Write)

| | |
|---|---|
| **Description** | Indicates the partition access permissions. It configures the access type to read-write. |
| **Legal Values** | • 0 (Read-only)<br>• 1 (Read-write) |
| **Default** | 0 |

### cfgVFlashPartitionAttachState (Read/Write)

| | |
|---|---|
| **Description** | Displays whether the partition is attached or detached.<br>**NOTE:** Detaching the vFlashPartition by setting cfgVFlashPartitionAttachState to 0 does not require a license. |
| **Legal Values** | • 1 (Attached)<br>• 0 (Detached) |
| **Default** | 0 |

## cfgLogging

This group contains parameters to enable or disable the OEM event log filtering. This group is applicable only for iDRAC.

The following section provide information about the objects in the **cfgLogging** group:

### cfgLoggingSELOEMEventFilterEnable (Read/Write)

| | |
|---|---|
| **Description** | Enables or disables the SEL Log filtering. |
| **Legal Values** | • 0 (Disable)<br>• 1 (Enable) |
| **Default** | 0 |

## cfgRacSecurity

This group is used to configure settings related to CMC SSL certificate signing request (CSR) feature. The properties in this group must be configured before generating a CSR from CMC.

Use this object with the config or getconfig subcommands.

To use this object property, you must have **Chassis Configuration Administrator** privilege. This object property is specific to CMC only.

For iDRAC this group is replaced with **cfgRacSecurityData.**

For more information on generating certificate signing requests, see the subcommand "sslcsrgen."

The following sections provide information about the objects in the **cfgRacSecurity** group.

### cfgRacSecCsrCommonName (Read/Write)

| | |
|---|---|
| **Description** | Specifies the CSR Common Name (CN) that must be an IP or CMC name as given in the certificate. |
| **Legal Values** | A string of up to 254 characters. |
| **Default** | <*blank*> |

### cfgRacSecCsrOrganizationName (Read/Write)

| | |
|---|---|
| **Description** | Specifies the CSR Organization Name (O). |
| **Legal Values** | A string of up to 254 characters. |
| **Default** | <*blank*> |

### cfgRacSecCsrOrganizationUnit (Read/Write)

| | |
|---|---|
| **Description** | Specifies the CSR Organization Unit (OU). |
| **Legal Values** | A string of up to 254 characters. |
| **Default** | <*blank*> |

## cfgRacSecCsrLocalityName (Read/Write)

| | |
|---|---|
| **Description** | Specifies the CSR Locality (L). |
| **Legal Values** | A string of up to 254 characters. |
| **Default** | <*blank*> |

## cfgRacSecCsrStateName (Read/Write)

| | |
|---|---|
| **Description** | Specifies the CSR State Name (S). |
| **Legal Values** | A string of up to 254 characters. |
| **Default** | <*blank*> |

## cfgRacSecCsrCountryCode (Read/Write)

| | |
|---|---|
| **Description** | Specifies the CSR Country Code (CC). |
| **Legal Values** | A string of 2 alphabet country code. |
| **Default** | US |

## cfgRacSecCsrEmailAddr (Read/Write)

| | |
|---|---|
| **Description** | Specifies the CSR email address. |
| **Legal Values** | A string of up to 254 characters. |
| **Default** | <*blank*> |

**Example**

```
racadm config -g cfgRacSecurity

cfgRacSecCsrKeySize=1024
cfgRacSecCommonName=
cfgRacSecOrganizationName=
cfgRacSecOrganizationUnit=
cfgRacSecLocalityName=
cfgRacSecStateName=
cfgRacSecCountryCode=
cfgRacSecEmailAddr=
```

## cfgRacSecCsrKeySize (Read or Write)

| | |
|---|---|
| **Description** | Specifies the SSL asymmetric key size for the CSRs. |
| **Legal Values** | 1024, 2048 |
| **Default** | 1024 |

## cfgRacSecCsrKeySize (Read/Write)

| | |
|---|---|
| **Description** | Specifies the SSL asymmetric key size for the CSRs. |
| **Legal Values** | 512, 1024, 2048 |
| **Default** | 1024 |

# 4

# Database Objects With Get and Set Commands

This chapter provides the database groups and objects that must be used with the get or set subcommands. These are applicable only for iDRAC7 and are not applicable for CMC. When using these objects, they must begin with FQDD or FQDD alias.

**NOTE:**

- The object values in the BIOS and NIC groups are case sensitive.
- For NIC objects, the definition of the key format is: `Key = <Device Class>.<Locator>.<Device Number>–<Port Number>[-<Partition Number>]#GroupName”`

  Where,

  – Device Class : NIC

  – Locator : Integrated, Slot, Mezzanine, or Embedded

  Example:

```
$racadm get NIC.NICConfig
NIC.NICConfig.1 [Key=NIC.Integrated.1-1#NICConfig]
NIC.NICConfig.2 [Key=NIC.Integrated.1-2#NICConfig]
NIC.NICConfig.3 [Key=NIC.Integrated.1-3#NICConfig]
NIC.NICConfig.4 [Key=NIC.Integrated.1-4#NICConfig]
```

## System.LCD

This group enables you to manage the front panel LCD user string settings.

The following section provides information about the objects in the System.LCD group.

**NOTE:** The System.LCD get and set command works on iDRAC on Blade Server, even if the LCD is not present on the server.

### System.LCD.Configuration (Read or Write)

| | |
|---|---|
| **Description** | Current LCD configuration. |
| **Legal Values** | • 0-User Defined<br>• 1-Model Name<br>• 2-None<br>• 4-iDRAC IPv4Address<br>• 8-iDRAC MAC Address<br>• 16-OS System Name<br>• 32-Service Tag<br>• 64-IPv6Address<br>• 128-Ambient Temperature |

- 256-System Watts
- 512-Asset Tag

| | |
|---|---|
| **Write Privilege** | Configure iDRAC and Configure User |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

### System.LCD.CurrentDisplay (Read Only)

| | |
|---|---|
| **Description** | The string currently displayed on the LCD. |
| **Legal Values** | None |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

### System.LCD. LCDUserString (Read/Write)

| | |
|---|---|
| **Description** | Indicates the lcd string set by the user. |
| **Legal Values** | String of up to 62 ASCII characters |
| **Default** | 0 |

## System.Location

This group enables you to manage the server's physical location characteristics.

The following section provides information about the objects in the <System>.Location group.

### System.Location.Aisle (Read or Write)

| | |
|---|---|
| **Description** | Indicates aisle where server is located. |
| **Legal Values** | String of up to 128 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

### System.Location.DataCenter (Read or Write)

| | |
|---|---|
| **Description** | Indicates name of the data center where the system is located. |
| **Legal Values** | String of up to 128 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| **Dependency** | None |

## System.Location.DeviceSize (Read Only)

| | |
|---|---|
| **Description** | Indicates server chassis size. |
| **Legal Values** | Values from 1 - 255 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Location.Rack.Name (Read or Write)

| | |
|---|---|
| **Description** | Indicates rack where the system is located. |
| **Legal Values** | String of up to 128 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Location.Rack.Slot (Read or Write)

| | |
|---|---|
| **Description** | Indicates the slot where system is located. |
| **Legal Values** | Values from 1 - 255 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Default** | None |

## System.Location.RoomName (Read or Write)

| | |
|---|---|
| **Description** | Room name where the sytem is located. |
| **Legal Values** | String of up to 128 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Default** | None |

## System.Location.Chassis.Name (Read Only)

| | |
|---|---|
| **Description** | Indicates the chassis name. |
| **Legal Values** | String of up to 128 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| **Dependency** | None |

### System.Location.Chassis.Slot (Read or Write)

| | |
|---|---|
| **Description** | Indicates chassis slot. |
| **Legal Values** | Values from 1 - 255 |
| **Write Privilege** | Configure iDRAC |
| **Dependency** | None |

## System.Power

This group provides power management features for iDRAC.

The following section provides information about the objects in the System.Power group.

### System.Power.Status (Read Only)

| | |
|---|---|
| **Description** | Represents the device power state, either ON or OFF. |
| **Legal Values** | • 0 - Server is off<br>• 1 - Server is on. |
| **Default** | None |

### System.Power.ServerAllocation (Read Only)

| | |
|---|---|
| **Description** | Indicates the power allocated to running blades. This value is displayed in both watts and BTU/h units. |
| **Legal Values** | 0 - 7928 |
| **Default** | None |

### System.Power.Avg.LastDay (Read Only)

| | |
|---|---|
| **Description** | Indicates the average power value during the last day. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

### System.Power.Avg.LastHour (Read Only)

| | |
|---|---|
| **Description** | Displays the average power value during the last hour. |
| **Legal Values** | Values from 1 - 65535 |

| | |
|---|---|
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Avg.LastWeek (Read Only)

| | |
|---|---|
| **Description** | Indicates the average power value during the last week. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Cap.ActivePolicy.Btuhr (Read Only)

| | |
|---|---|
| **Description** | Represents the active power in BTU/Hr a device is allowed to consume. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Cap.ActivePolicy.Name (Read Only)

| | |
|---|---|
| Description | Displays the Active Power Cap Policy Name |
| Legal Values | String of up to 128 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## System.Power.Cap.ActivePolicy.Watts (Read Only)

| | |
|---|---|
| Description | Displays the Active Power Capacity in Watts |
| Legal Values | Values from 1 - 65535 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## System.Power.Cap.Btuhr (Read or Write)

| | |
|---|---|
| **Description** | Represents the maximum power in BTU/Hr a device is allowed to consume. The device may throttle in order to meet this capacity.<br>**NOTE:** This value is read only on Modular servers .<br>**NOTE:** This value is applicable only if **System.Power.Cap.Enable** is set to 1. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | **System.Power.Cap.Enable** has to be enabled. |

## System.Power.Cap.Enable (Read or Write)

| | |
|---|---|
| **Description** | Enables or disables user specified power budget threshold configuration.<br>**NOTE:** This value is read only on Modular servers because CMC controls the capping. |
| **Legal Values** | • 0 - Disable<br>• 1 - Enable |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Cap.MaxThreshold (Read Only)

| | |
|---|---|
| **Description** | This is the maximum server power capacity. This is based on the current component inventory. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Cap.MinThreshold (Read Only)

| | |
|---|---|
| **Description** | This is the lowest calculated power consumption of the device. This is based on the current component inventory. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |

| | |
|---|---|
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Cap.Percent (Read or Write)

| | |
|---|---|
| **Description** | Represents the maximum power as a percentage of total power that a server is allowed to consume. The device may throttle in order to meet this cap.<br>**NOTE:** This value is read only for Modular servers.<br>**NOTE:** This value is applicable only if **System.Power.Cap.Enable** is set to 1. |
| **Legal Values** | Values from 0 - 100 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | **System.Power.Cap.Enable** has to be enabled |

## System.Power.Cap.Watts (Read or Write)

| | |
|---|---|
| **Description** | Represents the Maximum Power in Watts a device is allowed to consume. The device may throttle in order to meet this capacity.<br>**NOTE:** This value is read only for Modular servers.<br>**NOTE:** This value is applicable only if **System.Power.Cap.Enable** is set to 1. |
| **Legal Values** | Values from 0 - 100 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | **System.Power.Cap.Enable** must be enabled |

## System.Power.EnergyConsumption (Read Only)

| | |
|---|---|
| **Description** | Represents the Cumulative power consumption by the blade or system. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.EnergyConsumption.Clear (Read or Write)

| | |
|---|---|
| **Description** | Clears the cumulative power consumption timestamps. |
| **Legal Values** | 1 |
| **Write Privilege** | Configure iDRAC |

| | |
|---|---|
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.EnergyConsumption.StarttimeStamp ( Read Only )

| | |
|---|---|
| **Description** | Displays the Timestamp of the cumulative power consumption. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Write Privilege** | None |

## System.Power.Hotspare.Enable (Read or Write)

| | |
|---|---|
| **Description** | Enables HotSpare functionality for the primary PSU selection.<br>**NOTE:** This object is supported only for iDRAC on Rack and Tower servers. |
| **Legal Values** | 0 - Disable<br>1- Enable |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Hotspare.PrimaryPSU (Read or Write)

| | |
|---|---|
| **Description** | Represents the primary PSU selection.<br>**NOTE:** This object is supported only for iDRAC on Rack and Tower servers. |
| **Legal Values** | • 1 - PSU1<br>• 2 - PSU2<br>• 5 - PSU1 and PSU3<br>• 10 - PSU2 and PSU4 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.Amps (Read Only)

| | |
|---|---|
| **Description** | Specifies the device Peak Power Consumption since this value was last cleared. |
| **Legal Values** | Values from 1 - 65535. |

| | |
|---|---|
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.Amps.TimeStamp (Read Only)

| | |
|---|---|
| **Description** | Specifies the timestamp recorded for the Peak Power Consumption since this value was last cleared. |
| **Legal Values** | String up to 254 ASCII characters. |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.Headroom (Read Only)

| | |
|---|---|
| **Description** | Displays the difference between the available power and the peak power consumption.<br>**NOTE:** This object is not applicable on iDRAC on Modular servers. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.LastDay (Read Only)

| | |
|---|---|
| **Description** | Displays the maximum power value during the last day. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.LastDay.TimeStamp (Read Only)

| | |
|---|---|
| **Description** | Displays the timestamp of maximum power value during the last day. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.LastHour (Read Only)

| | |
|---|---|
| **Description** | Displays the maximum power value during the last hour. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.LastHour.TimeStamp (Read Only)

| | |
|---|---|
| **Description** | Displays the timestamp of maximum power value during the last hour. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.LastWeek (Read Only)

| | |
|---|---|
| **Description** | Displays the maximum power value during the last week. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.LastWeek.TimeStamp (Read Only)

| | |
|---|---|
| **Description** | Displays the timestamp of maximum power value during the last week. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Max.Power (Read Only)

| | |
|---|---|
| **Description** | This is the maximum power consumed by the server since this value was last cleared. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| **Dependency** | None |

## System.Power.Max.Power.Timestamp (Read Only)

| | |
|---|---|
| Description | Displays time of maximum power consumption. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## System.Power.Max.PowerClear (Read Only)

| | |
|---|---|
| **Description** | Clears the Maximum PowerConsumption timestamps. |
| **Legal Values** | 1 - Clear the Power Consumption Statistics |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Min.LastDay (Read Only)

| | |
|---|---|
| **Description** | Displays the minimum power during the last day. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Min.LastDay.TimeStamp (Read Only)

| | |
|---|---|
| **Description** | Displays the minimum power value during the last day. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Min.LastHour (Read Only)

| | |
|---|---|
| **Description** | Indicates the minimum power value during the last hour. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| **Dependency** | None |

## System.Power.Min.LastHour.Timestamp (Read Only)

| | |
|---|---|
| **Description** | Indicates the timestamp of minimum power during the last hour. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Min.LastWeek (Read Only)

| | |
|---|---|
| **Description** | Indicates the minimum power during the last week. |
| **Legal Values** | Values from 1 - 65535 |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Min.LastWeek.TimeStamp (Read Only)

| | |
|---|---|
| **Description** | Displays the timestamp of minimum power value during the last week. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.PCIeAllocation (Read or Write)

| | |
|---|---|
| **Description** | Specifies PCIe power allocation for blade servers. This is applicable only for Expansler.<br>**NOTE:** This object only applies to servers that support PCIe Card. |
| **Legal Values** | • 0 - Disabled,<br>• 1 - Enabled |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.PFCEnable (Read or Write)

| | |
|---|---|
| **Description** | Enables the power factor correction enable.<br>**NOTE:**<br>• This object is supported only for iDRAC on Rack and Tower servers.<br>• This object is applicable only if **System.Power.Cap.Enable** is set to 1. |
| **Legal Values** | • 0 - Disabled<br>• 1 - Enabled |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.RedundancyCapabilities (Read Only)

| | |
|---|---|
| **Description** | Returns the redundancy capabilities in the form of a bitmask. This bitmask indicates the values that are set by **cfgSensorRedundancyPolicy**.<br>**NOTE:** This object is not applicable on iDRAC on Blade servers. |
| **Legal Values** | A Bit Mask.<br>More than 1 bit can be set at a time to indicate multiple redundancy support.<br>• 0 - not applicable<br>• 1 - Non Redundant<br>• 2 - 1+1 Redundant<br>• 4 - 2+1 Redundant<br>• 8 - 2+2 Redundant<br>• 16 - 3+x Redundant<br>• 32 - 4+x Redundant<br>• 64 - 5+x Redundant |
| **Default** | 0 |

## System.Power.RedundantState (Read Only)

| | |
|---|---|
| **Description** | Retrieves the redundancy state for the chassis. |
| **Legal Values** | • 0 - None<br>• 1 - Full |

| | |
|---|---|
| **Default** | **0** |

# System.Power.Supply

This group provides information relating to the Power Supplies.

This group is indexed from 1 to 4. If there are less than 4 power supplies on the server, then some of the last indexes of this group are not applicable. This group is not applicable for iDRAC on Rack and Tower servers.

The following section provides information about the objects in the <System>.Power.Supply group.

## System.Power.Supply.CurrentDraw (Read Only)

| | |
|---|---|
| **Description** | Displays the instantaneous current consumption in 0.1 Amps. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Supply.FwVer (Read Only)

| | |
|---|---|
| **Description** | Displays the firmware version of the power supply unit. |
| **Legal Values** | String up to 254 ASCII characters. |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## System.Power.Supply.[i].MaxInputPower (Read Only)

| | |
|---|---|
| **Description** | Displays the AC input rated power in Watts. |
| **Legal Values** | Integer > 0 |
| **Default** | 0 |

## System.Power.Supply.[i].MaxOutputPower (Read Only)

| | |
|---|---|
| **Description** | Displays the DC output rated power in Watts. |
| **Legal Values** | Integer > 0 |
| **Default** | 0 |

### System.Power.Supply.[i].Status (Read Only)

| | |
|---|---|
| **Description** | Displays the status of the power supply unit. |
| **Legal Values** | • 0 - absent<br>• 1 - present and OK<br>• 2 - failure<br>• 3 - predictive failure |
| **Default** | 0 |

### System.Power.Supply.[i].Type (Read Only)

| | |
|---|---|
| **Description** | Displays whether the power supply is AC or DC. This is an indexed group and the square brackets are only place-holders, and do not form a part of command syntax. |
| **Legal Values** | String upto 32 characters. |
| **Default** | None |

### System.Power.Supply.[i].LineStatus (Read Only)

| | |
|---|---|
| **Description** | Specifies if this power supply is powered off or on. |
| **Legal Values** | Integer > 0 |
| **Default** | None |

### System.Power.Supply.[i].PMBusMonitoring (Read Only)

| | |
|---|---|
| **Description** | Specifies if this PMBus is present or not. |
| **Legal Values** | Integer > 0 |
| **Default** | 0 |

## System.ServerOS

Use the objects in this group to manage the host operating system's name and version details.

### System.ServerOS.HostName (Read or Write)

| | |
|---|---|
| **Description** | Displays the host name of the managed server. |
| **Legal Values** | String of up to 256 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

### System.ServerOS.OSName (Read or Write)

| | |
|---|---|
| **Description** | Displays the operating system name of the managed server. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

### System.ServerOS.OSVersion (Read Only)

| | |
|---|---|
| **Description** | Indicates the operating system version of the managed server. |
| **Legal Values** | String of up to 254 ASCII characters |
| **Write Privilege** | Configure iDRAC |
| **License Required** | iDRAC7 Express or iDRAC7 Enterprise |
| **Dependency** | None |

## LC.LCAttributes

The following section provides information about the objects in the LC.LCAttributes group.

### LC.LCAttributes.CollectSystemInventoryOnRestart (Read or Write)

| | |
|---|---|
| Description | Enables or disables collection of system inventory on host reboot. |
| Legal Values | 0-Disabled<br>1-Enabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### LC.LCAttributes.LifecycleControllerState (Read / Write)

| | |
|---|---|
| Description | Enables or disables lifecycle controller. |
| Legal Values | 0-Disabled<br>1-Enabled<br>2-Recovery (Read-Only Value) |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### LC.LCAttributes.PartConfigurationUpdate (Read or Write)

| | |
|---|---|
| Description | Apply hardware configuration to the replaced part on part replacement. |
| Legal Values | 0 - Disabled<br>1 - Apply Always<br>2 - Apply only if Firmware Match |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### LC.LCAttributes.PartFirmwareUpdate (Read or Write)

| | |
|---|---|
| Description | Apply firmware changes to the replaced part on part replacement. |
| Legal Values | 0 - Disabled<br>1 - Allow version upgrade only<br>2 - Match firmware of replaced part |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory

Use the objects in this group to manage the configuration of the iDRAC Active Directory features.

### iDRAC.ActiveDirectory.AuthTimeout

| | |
|---|---|
| Description | Specifies the time in seconds to wait for Active Directory authentication requests to complete before timing out. |
| Legal Values | Integral values from 15 to 300 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.ActiveDirectory.CertValidationEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables Active Directory certificate validation as a part of the Active Directory configuration process. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |

| | |
|---|---|
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory.DCLookupByUserDomain (Read or Write)

| | |
|---|---|
| Description | Enables selection of the option to look up the user domain for Active Directory. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | Cannot be disabled unless the DC Lookup Domain Name is set. |

## iDRAC.ActiveDirectory.DCLookupDomainName (Read or Write)

| | |
|---|---|
| Description | This is the configured search domain to use when **DCLookupByUserDomain** is disabled. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory.DCLookupEnable (Read or Write)

| | |
|---|---|
| Description | Configures iDRAC to use pre-configured domain controllers or to use DNS to find the domain controller |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | Cannot be enabled unless one of the following is configured:<br>• IPv4.DNS1<br>• IPv4.DNS2<br>• IPv6.DNS1<br>• IPv6.DNS2 |

## iDRAC.ActiveDirectory.DomainController1 (Read or Write)

| | |
|---|---|
| Description | FQDN that stores the address of the active directory domain controller 1. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory.DomainController2 (Read or Write)

| | |
|---|---|
| Description | FQDN that stores the address of the active directory domain controller 2 |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory.DomainController3 (Read or Write)

| | |
|---|---|
| Description | FQDN that stores the address of the active directory domain controller 3 |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables Active Directory user authentication on iDRAC. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory.GCLookupEnable (Read or Write)

| | |
|---|---|
| Description | Determines how to look up the global catalog server. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |

| | |
|---|---|
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | Cannot be enabled unless one of the following is configured:<br>• IPv4.DNS1<br>• IPv4.DNS2<br>• IPv6.DNS1<br>• IPv6.DNS2 |

## iDRAC.ActiveDirectory.GCRootDomain (Read or Write)

| | |
|---|---|
| Description | The name of the Active Directory root domain used for DNS look up. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | None |
| Dependency | None |

## iDRAC.ActiveDirectory.GlobalCatalog1 (Read or Write)

| | |
|---|---|
| Description | Specifies the Global Catalog server from which you want the iDRAC to obtain user names. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory.GlobalCatalog2 (Read or Write)

| | |
|---|---|
| Description | Specifies the Global Catalog server from which you want the iDRAC to obtain user names. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.ActiveDirectory.GlobalCatalog3 (Read or Write)

| | |
|---|---|
| Description | Specifies the Global Catalog server from which you want the iDRAC to obtain user names. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |

| | |
|---|---|
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.ActiveDirectory.RacDomain (Read or Write)

| | |
|---|---|
| Description | Active Directory Domain in which iDRAC resides. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.ActiveDirectory.RacName (Read or Write)

| | |
|---|---|
| Description | Name of iDRAC as recorded in the Active Directory forest. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.ActiveDirectory.Schema (Read or Write)

| | |
|---|---|
| Description | Determines the schema type to use with Active Directory. |
| Legal Values | None |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.ActiveDirectory.SSOEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables Active Directory single sign-on authentication on iDRAC. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | Cannot be enabled unless SmartCard Logon Enable is disabled. |

## iDRAC.ADGroup

Use the objects in this group to manage the configuration of AD standard schema settings.

### iDRAC.ADGroup.Domain (Read or Write)

| | |
|---|---|
| Description | Active Directory Domain in which the Role Group resides. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.ADGroup.Name (Read or Write)

| | |
|---|---|
| Description | Name of the Role Group as recorded in the Active Directory forest. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.ADGroup.Privilege (Read or Write)

| | |
|---|---|
| Description | Role-based authority privileges for a Role Group. |
| Legal Values | Integral values from 0 to 511 (0x1FF) |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.AutoOSLock

Use the objects in this group to manage the OS Auto lock feature.

### iDRAC.AutoOSLock.AutoOSLockState (Read or Write)

| | |
|---|---|
| Description | Enable or Disable OS Auto lock feature. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.EmailAlert

Use the objects in this group to configure e-mail alerting capabilities.

## iDRAC.EmailAlert.Address (Read or Write)

| | |
|---|---|
| Description | Specifies the destination email address for email alerts. |
| Legal Values | A valid IPv4 or IPv6 address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.EmailAlert.CustomMsg (Read or Write)

| | |
|---|---|
| Description | Specifies the custom message that forms the subject of the alert. |
| Legal Values | A string of up to 32 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.EmailAlert.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the destination to receive alerts. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.Info

Use the objects in this group to manage information about iDRAC being queried.

## iDRAC.Info.Build (Read Only)

| | |
|---|---|
| Description | String containing the current product build version. |
| Legal Values | String of up to 16 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

## iDRAC.Info.Description (Read Only)

| | |
|---|---|
| Description | Text description of the iDRAC. |
| Legal Values | String of up to 255 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Info.Name (Read Only)

| | |
|---|---|
| Description | User assigned name identifying this controller. |
| Legal Values | String of up to 15 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Info.Product (Read Only)

| | |
|---|---|
| Description | String identifying the Product. |
| Legal Values | String of up to 63 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Info.Type (Read Only)

| | |
|---|---|
| Description | Identifies the remote access controller type |
| Legal Values | • 16- 12G iDRAC Monolithic<br>• 17- 12G iDRAC Modular |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Info.Version (Read Only)

| | |
|---|---|
| Description | String containing the current product firmware version. |
| Legal Values | String of up to 63 ASCII characters |

| | |
|---|---|
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.IPBlocking

Use the objects in this group to configure IP address blocking feature of iDRAC.

## iDRAC.IPBlocking.BlockEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the IPv4 address blocking feature of iDRAC. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPBlocking.FailCount (Read or Write)

| | |
|---|---|
| Description | The maximum number of login failures to occur within the window before login attempts from the IP address are rejected. |
| Legal Values | Integral values from 2 to 16 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPBlocking.FailWindow (Read or Write)

| | |
|---|---|
| Description | Defines the time span in seconds that the failed attempts are counted. |
| Legal Values | Integral values from 10 to 65535 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPBlocking.PenaltyTime (Read or Write)

| | |
|---|---|
| Description | Defines the time span in seconds that session requests from an IP address with excessive failures are rejected. |
| Legal Values | Integral values from 2 to 65535 |
| Write Privilege | Configure iDRAC |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPBlocking.RangeAddr (Read or Write)

| | |
|---|---|
| Description | Specifies the acceptable IPv4 address bit pattern in positions determined by the 1s in the range mask. |
| Legal Values | Valid IPv4 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPBlocking.RangeEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the IPv4 Address Range validation feature of iDRAC. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPBlocking.RangeMask (Read or Write)

| | |
|---|---|
| Description | Standard IP mask values with left-justified bits. |
| Legal Values | Valid IPv4 Address Mask |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMILan

Use the objects in this group to configure IPMI over LAN of the system.

### iDRAC.IPMILan.AlertEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables global email alerting. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMILan.CommunityName (Read or Write)

| | |
|---|---|
| Description | Specifies the SNMP community name for traps. |
| Legal Values | String of up to 18 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMILan.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the IPMI over LAN interface. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMILan.EncryptionKey (Read or Write)

| | |
|---|---|
| Description | Enables or disables the IPMI over LAN interface. |
| Legal Values | String of up to 18 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMILan.PrivLimit (Read or Write)

| | |
|---|---|
| Description | Specifies the maximum privilege level for IPMI over LAN access. |
| Legal Values | • 2- User<br>• 3- Operator<br>• 4- Administrator |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.IPMISerial

Use the objects in this group to configure the IPMI serial interface.

**NOTE:** This is supported only for rack and tower systems.

## iDRAC.IPMISerial.BaudRate (Read or Write)

| | |
|---|---|
| Description | Specifies the baud rate for serial connection over IPMI. |
| Legal Values | • 9600<br>• 19200<br>• 57600<br>• 115200 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISerial.ChanPrivLimit (Read or Write)

| | |
|---|---|
| Description | Specifies the maximum privilege limit allowed on the IPMI serial channel. |
| Legal Values | • 2- User<br>• 3- Operator<br>• 4- Administrator |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISerial.ConnectionMode (Read or Write)

| | |
|---|---|
| Description | Determines the IPMI defined mode of the serial port. |
| Legal Values | • 1- Basic<br>• 0- Terminal |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISerial.DeleteControl (Read or Write)

| | |
|---|---|
| Description | Enables or disables delete control on the IPMI serial interface. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISerial.EchoControl (Read or Write)

| | |
|---|---|
| Description | Enables or disables echo control on the IPMI serial interface. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISerial.FlowControl (Read or Write)

| | |
|---|---|
| Description | Specifies the Flow Control setting for IPMI serial port. |
| Legal Values | • 0- None<br>• 2- RTS/CTS |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISerial.HandshakeControl (Read or Write)

| | |
|---|---|
| Description | Enables or disables the IPMI terminal mode handshake control. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPMISerial.InputNewLineSeq (Read or Write)

| | |
|---|---|
| Description | Specifies the input new line sequence for the IPMI serial interface. |
| Legal Values | • 1- Enter<br>• 2- Null |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPMISerial.LineEdit (Read or Write)

| | |
|---|---|
| Description | Enables or disables line editing on the IPMI serial interface. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPMISerial.NewLineSeq (Read or Write)

| | |
|---|---|
| Description | Specifies the new line sequence for the IPMI serial interface. |
| Legal Values | • 0- None<br>• 1- CR-LF<br>• 2- Null<br>• 3- CR<br>• 4- LF-CR<br>• 5- LF |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISOL

Use the objects in this group to configure the SOL capabilities of the system.

## iDRAC.IPMISOL.AccumulateInterval (Read or Write)

| | |
|---|---|
| Description | Specifies the typical amount of time that iDRAC waits before transmitting a partial SOL character data packet. |
| Legal Values | Integral values from 1 to 255 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISOL.BaudRate (Read or Write)

| | |
|---|---|
| Description | Specifies the Baud rate for serial communication over LAN. |
| Legal Values | • 9600<br>• 19200<br>• 57600<br>• 115200 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISOL.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables SOL. |
| Legal Values | • 0- Disabled<br>• 1- Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPMISOL.MinPrivilege (Read or Write)

| | |
|---|---|
| Description | Specifies the minimum privilege level required for serial access. |
| Legal Values | • 2- User<br>• 3- Operator<br>• 4- Administrator |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPMISOL.SendThreshold (Read or Write)

| | |
|---|---|
| Description | Specifies the SOL threshold limit value and the maximum number of bytes to buffer before sending an SOL data packet. |
| Legal Values | Integral values from 1 to 255 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv4

Use the objects in this group to manage the IPv4 configuration properties of iDRAC.

### iDRAC.IPv4.Address (Read or Write)

| | |
|---|---|
| Description | The current IPv4 address assigned to iDRAC. |
| Legal Values | Valid IPv4 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv4.DHCPEnable is disabled. |

### iDRAC.IPv4.DHCPEnable (Read or Write)

| | |
|---|---|
| Description | Specifies if DHCP is used to assign the iDRAC IPv4 address. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be enabled unless IPv4.Enable is enabled. |

### iDRAC.IPv4.DNS1 (Read or Write)

| | |
|---|---|
| Description | IPv4 address for DNS server 1. |
| Legal Values | Valid IPv4 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv4.DNSFromDHCP is disabled. |

## iDRAC.IPv4.DNS2 (Read or Write)

| | |
|---|---|
| Description | IPv4 address for DNS Server 2. |
| Legal Values | Valid IPv4 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv4.DNSFromDHCP is disabled. |

## iDRAC.IPv4.DNSFromDHCP (Read or Write)

| | |
|---|---|
| Description | Specifies if the DNS server IPv4 addresses should be assigned from the DHCP server on the network. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be enabled unless IPv4.DHCPEnable is enabled. |

## iDRAC.IPv4.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the iDRAC IPv4 stack. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv4.Gateway (Read or Write)

| | |
|---|---|
| Description | The gateway for the iDRAC IPv4 address. |
| Legal Values | Valid IPv4 gateway |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv4.DHCPEnable is disabled. |

### iDRAC.IPv4.Netmask (Read or Write)

| | |
|---|---|
| Description | The subnet mask used for the iDRAC IPv4 address. |
| Legal Values | Valid IPv4 netmask |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv4.DHCPEnable is disabled. |

## iDRAC.IPv4Static

Use the objects in this group to manage the IPv4 Static configuration properties of iDRAC.

### iDRAC.IPv4Static.Address (Read or Write)

| | |
|---|---|
| Description | iDRAC static IPv4 address. This address can be configured even when DHCP is enabled. |
| Legal Values | Valid IPv4 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv4Static.DNS1 ( Read or Write )

| | |
|---|---|
| Description | Statically configurable DNS Server 1. |
| Legal Values | Valid IPv4 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv4Static.DNS2 (Read or Write)

| | |
|---|---|
| Description | Statically configurable DNS Server 2. |
| Legal Values | Valid IPv4 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv4Static.Gateway (Read or Write)

| | |
|---|---|
| Description | iDRAC static IPv4 gateway. This address can be configured even when DHCP is enabled. |
| Legal Values | Valid IPv4 gateway |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv4Static.Netmask (Read or Write)

| | |
|---|---|
| Description | iDRAC static IPv4 subnet mask. This address can be configured even when DHCP is enabled. |
| Legal Values | Valid IPv4 netmask |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6

Use the objects in this group to manage the IPv6 configuration properties of iDRAC.

### iDRAC.IPv6.Address 2 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 second address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv6.Address 4 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 fourth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address 5 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 fifth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address 6 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 sixth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address 7 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 seventh address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address 8 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 eighth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address 9 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 ninth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address1 (Read or Write)

| | |
|---|---|
| Description | iDRAC IPv6 Address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv6.AutoConfig is disabled. |

## iDRAC.IPv6.Address10 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 tenth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address11 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 eleventh address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address12 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 twelfth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address13 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 thirteenth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address14 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 fourteenth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address15 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 fifteenth address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Address3 (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 third address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.AutoConfig (Read or Write)

| | |
|---|---|
| Description | Enables or disables the iDRAC IPv6 auto configuration option. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.DNS1 (Read or Write)

| | |
|---|---|
| Description | IPv6 DNS Server 1 Address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv6.DNSFromDHCP6 is disabled. |

## iDRAC.IPv6.DNS2 (Read or Write)

| | |
|---|---|
| Description | IPv6 DNS Server 2 Address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv6.DNSFromDHCP6 is disabled. |

## iDRAC.IPv6.DNSFromDHCP6 (Read or Write)

| | |
|---|---|
| Description | Specifies if the DNS Server addresses are obtained from DHCP or not. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be Enabled unless IPv6.AutoConfig is enabled. |

## iDRAC.IPv6.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or Disables iDRAC IPv6 stack. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6.Gateway (Read or Write)

| | |
|---|---|
| Description | iDRAC IPv6 Gateway |
| Legal Values | Valid IPv6 gateway |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set unless IPv6.AutoConfig is disabled. |

### iDRAC.IPv6.LinkLocalAddress (Read or Write)

| | |
|---|---|
| Description | iDRAC IPv6 Link Local Address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv6.PrefixLength (Read or Write)

| | |
|---|---|
| Description | Prefix length for the iDRAC IPv6 Address. |
| Legal Values | Integral values from 1 to 128 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6Static

Use the objects in this group to manage the IPv6 static configuration properties of iDRAC.

### iDRAC.IPv6Static.Address1 (Read or Write)

| | |
|---|---|
| Description | iDRAC static IPv6 address. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv6Static.DNS1 (Read or Write)

| | |
|---|---|
| Description | Statically configurable DNS Server 1. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv6Static.DNS2 (Read or Write)

| | |
|---|---|
| Description | Statically configurable DNS Server 2. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv6Static.DNSFromDHCP6 (Read or Write)

| | |
|---|---|
| Description | Specifies if the DNS server IPv6 addresses should be assigned from the DHCP server on the network. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv6Static.Gateway (Read or Write)

| | |
|---|---|
| Description | iDRAC static IPv6 gateway. |
| Legal Values | Valid IPv6 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.IPv6Static.PrefixLength (Read or Write)

| | |
|---|---|
| Description | Prefix length for the iDRAC IPv6 Address. |
| Legal Values | Integral values from 1 to 128 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.IPv6URL

Use the objects in this group to manage the IPv6 static configuration properties of iDRAC.

### iDRAC.IPv6URL.URL (Read Only)

| | |
|---|---|
| Description | iDRAC IPv6 URL String of format 'https://[ipv6 address]:<port number>' |
| Legal Values | IPv6 URL String |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | iDRAC IPv6 has to be Enabled |

## iDRAC.LDAP

Use the objects in this group to configure properties for LDAP settings.

### iDRAC.LDAP.BaseDN (Read or Write)

| | |
|---|---|
| Description | The Domain Name of the branch of the directory where all searches should start from. |
| Legal Values | String of up to 63 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.LDAP.BindDN (Read or Write)

| | |
|---|---|
| Description | The Domain Name of the branch of the directory where all searches should start from. |
| Legal Values | String of up to 255 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.LDAP.BindPassword (Password)

| | |
|---|---|
| Description | A bind password to use in conjunction with the bindDN. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.LDAP.CertValidationEnable (Read or Write)

| | |
|---|---|
| Description | Controls certificate validation during SSL handshake. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.LDAP.Enable (Read or Write)

| | |
|---|---|
| Description | Turns LDAP service on or off. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.LDAP.GroupAttribute (Read or Write)

| | |
|---|---|
| Description | Specifies which LDAP attribute is used to check for group membership. |
| Legal Values | String of up to 128 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.LDAP.GroupAttributeIsDN (Read or Write)

| | |
|---|---|
| Description | Specifies whether the user domain name should be used from the LDAP server or from what was provided by user at login. |
| Legal Values | String of up to 128 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.LDAP.Port (Read or Write)

| | |
|---|---|
| Description | Port of LDAP over SSL. |
| Legal Values | Integer values from 1- 65535 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.LDAP.SearchFilter (Read or Write)

| | |
|---|---|
| Description | A valid LDAP search filter to be used if the user attribute cannot uniquely identify the login user within the chosen baseDN. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.LDAP.Server (Read or Write)

| | |
|---|---|
| Description | Configures the address of the LDAP Server. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.LDAP.UserAttribute (Read or Write)

| | |
|---|---|
| Description | Specifies the user attribute to search for. |
| Legal Values | String of up to 128 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.LDAPRoleGroup

The objects in this group enable Configuration of role groups for LDAP.

### iDRAC.LDAPRoleGroup.DN (Read or Write)

| | |
|---|---|
| Description | This is the Domain Name of the group. |
| Legal Values | String of up to 1024 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.LDAPRoleGroup.Privilege (Read or Write)

| | |
|---|---|
| Description | A bit-mask defining the privileges associated with this particular group. |
| Legal Values | Integral values from 0 to 511 (0x1FF) |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.LocalSecurity

Use the objects in this group to manage the ability to configure iDRAC.

### iDRAC.LocalSecurity.LocalConfig (Read or Write)

| | |
|---|---|
| Description | Enables or disables the ability of the local user to configure iDRAC from Local RACADM. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.LocalSecurity.PrebootConfig (Read or Write)

| | |
|---|---|
| Description | Enables or disables the ability of the local user to configure iDRAC from the BIOS POST option-ROM. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

# iDRAC.Logging

iDRAC. Logging Manages the ability to configure iDRAC

## iDRAC.Logging.SELOEMEventFilterEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the ability of Logging SEL Records with OEM. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.NIC

Use the objects in this group to configure the iDRAC NIC.

## iDRAC.NIC.AutoDetect (Read or Write)

| | |
|---|---|
| Description | Enables or disables auto detection feature of iDRAC. |
| Legal Values | • 0 – Disabled<br>• 1 - Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (for Blades) or iDRAC7 Enterprise |
| Dependency | This object is writeable only when Nic Selection is in shared mode. |

## iDRAC.NIC.Autoneg (Read or Write)

| | |
|---|---|
| Description | Enables autonegotiation of physical link speed and duplex. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.DedicatedNICScanTime (Read or Write)

| | |
|---|---|
| Description | Wait time for the iDRAC to switch from dedicated mode to shared mode. |
| Legal Values | Integral values from 5 - 255 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (for Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.DNSDomainFromDHCP (Read or Write)

| | |
|---|---|
| Description | Specifies that the iDRAC DNS Domain Name should be assigned from the network DHCP server. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Can be Enabled only if the following are enabled:<br>• IPv4.Enable and IPv4.DHCPEnable<br>• IPv6.Enable and IPv6.AutoConfig |

## iDRAC.NIC.DNSDomainName (Read or Write)

| | |
|---|---|
| Description | The DNS Domain Name. |
| Legal Values | A string of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Can be set only if NIC.DNSDomainFromDHCP is disabled. |

## iDRAC.NIC.DNSDomainNameFromDHCP (Read or Write)

| | |
|---|---|
| Description | Specifies that the **iDRAC DNS Domain Name** should be assigned from the network DHCP server. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.DNSRacName (Read or Write)

| | |
|---|---|
| Description | The iDRAC name. |
| Legal Values | String of up to 63 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.DNSRegister (Read or Write)

| | |
|---|---|
| Description | Registers the iDRAC name with the DNS server. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Can be Enabled only if DNSRacName is set. |

## iDRAC.NIC.Duplex (Read or Write)

| | |
|---|---|
| Description | Specifies the duplex setting for the iDRAC NIC. |
| Legal Values | • 0- Half<br>• 1- Full |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot change NIC Duplex unless AutoNeg is set to disabled. |

## iDRAC.NIC.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or Disables the iDRAC network interface controller. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.Failover (Read or Write)

| | |
|---|---|
| Description | Enables or disables failover for idrac to switch from shared to dedicated. |
| Legal Values | • 0- None<br>• 2- LOM1<br>• 3- LOM2<br>• 4- LOM3<br>• 5- LOM4<br>• 6- All |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Possible Values depend on current NIC Selection settings. |

## iDRAC.NIC.MACAddress (Read Only)

| | |
|---|---|
| Description | The MAC Address of the iDRAC. |
| Legal Values | String of up to 17 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.MTU (Read or Write)

| | |
|---|---|
| Description | The size in bytes of the maximum transmission unit used by the iDRAC NIC. |
| Legal Values | Integral values from 576 to 1500 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.Selection (Read or Write)

| | |
|---|---|
| Description | Specifies the current mode of operation for the iDRAC network interface controller. |
| Legal Values | • 1- Dedicated<br>• 2- LOM1<br>• 3- LOM2<br>• 4- LOM3<br>• 5- LOM4 |

| | |
|---|---|
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (for Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.SharedNICScanTime (Read or Write)

| | |
|---|---|
| Description | Wait time for the iDRAC to switch from shared mode to dedicated mode. |
| Legal Values | Integral values from 5 - 255 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (for Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.Speed (Read or Write)

| | |
|---|---|
| Description | Specifies the speed for the iDRAC NIC. |
| Legal Values | • 0- 10<br>• 1- 100<br>• 2- 1000 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot change NIC Speed unless AutoNeg is set to disabled. |

## iDRAC.NIC.VLanEnable (Read Only)

| | |
|---|---|
| Description | Enables or disables the VLAN capabilities of the iDRAC.<br>**NOTE:** This object is applicable only to iDRAC on Racks and Towers. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NIC.VLanID (Read Only)

| | |
|---|---|
| Description | Specifies the VLAN ID for the network VLAN configuration. |

| | |
|---|---|
| | **NOTE:** This object is applicable only to iDRAC on Racks and Towers. |
| Legal Values | Integral values from 1 - 4069 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be changed unless VLanEnable is enabled. |

### iDRAC.NIC.VLanPriority (Read Only)

| | |
|---|---|
| Description | Specifies the VLAN priority for the network VLAN configuration.<br>**NOTE:** This object is applicable only to iDRAC on Racks and Towers. |
| Legal Values | Integral values from 0 - 7 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be changed unless VLanEnable is enabled. |

## iDRAC.NICStatic

Use the objects in this group to manage DNS related properties of iDRAC.

### iDRAC.NICStatic.DNSDomainFromDHCP (Read or Write)

| | |
|---|---|
| Description | Specifies that the iDRAC DNS Domain Name should be assigned from the network DHCP server. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.NICStatic.DNSDomainName (Read or Write)

| | |
|---|---|
| Description | The DNS Domain Name. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.NTPConfigGroup

Use the objects in this group to configure the properties of NTP server.

## iDRAC.NTPConfigGroup.NTP1 (Read or Write)

| | |
|---|---|
| Description | Configure NTP Server 1 Address. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NTPConfigGroup.NTP2 (Read or Write)

| | |
|---|---|
| Description | Configure NTP Server 2 Address. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NTPConfigGroup.NTP3 (Read or Write)

| | |
|---|---|
| Description | Configure NTP Server 3 Address. |
| Legal Values | String of up to 254 ASCII characters. |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.NTPConfigGroup.NTPEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables NTP server access to iDRAC. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.NTPConfigGroup.NTPMaxDist (Read or Write)

| | |
|---|---|
| Description | NTP Maximum Distance |
| Legal Values | Integral values from 1 to 128 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.OS-BMC

Use the objects in this group to manage OS-BMC pass-through feature.

### iDRAC.OS-BMC.AdminState (Read or Write)

| | |
|---|---|
| Description | Enables or disables administrative state of OS to iDRAC pass through. |
| Legal Values | • 0 - Disabled<br>• 1 - Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.OS-BMC.OSIpAddress (Read or Write)

| | |
|---|---|
| Description | IPv4 address of the host Operating System. |
| Legal Values | Valid IPv4 Address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.OS-BMC.PTCapability (Read or Write)

| | |
|---|---|
| Description | Operating System to iDRAC Pass Through Capability status. |
| Legal Values | • 0 - Capable<br>• 1 - Not Capable or Unknown |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.Racadm

Use the objects in this group to manage Remote RACADM connection settings.

## iDRAC.Racadm.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables Remote RACADM interface. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Racadm.Timeout (Read or Write)

| | |
|---|---|
| Description | Defines the idle timeout in seconds of the Remote RACADM interface. |
| Legal Values | 0 — No timeout and integral values from 60 - 10800 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.RemoteHosts

Use the objects in this group to manage the properties for configuration of the SMTP server.

## iDRAC.RemoteHosts.SMTPServerIPAddress (Read or Write)

| | |
|---|---|
| Description | IPv4 or IPv6 address of the network SMTP server. |
| Legal Values | String representing a valid SMTP server IPv4 or IPv6 address |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.RFS

Use the objects in this group to configure Remote file share access to iDRAC.

### iDRAC.RFS.AttachMode (Read or Write)

| | |
|---|---|
| Description | RFS Media attach mode. |
| Write Privilege | Configure iDRAC |
| Legal Values | • 0- Attach<br>• 1- Auto Attach |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.RFS.MediaAttachState (Read Only)

| | |
|---|---|
| Description | RFS Media attach state. |
| Legal Values | • 0- Attached<br>• 1- Detached |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Security

Use the objects in this group to configure SSL certificate signing request settings.

### iDRAC.Security.CsrCommonName (Read or Write)

| | |
|---|---|
| Description | Specifies the CSR Common Name (CN) that must be an IP as given in the certificate. |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Security.CsrCountryCode (Read or Write)

| | |
|---|---|
| Description | Specifies the CSR Country Code (CC). |
| Legal Values | String of a 2 Alphabet Country Code. For example: US |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Security.CsrEmailAddr (Read or Write)

| | |
|---|---|
| Description | Specifies the CSR email address. |
| Legal Values | Valid email address string of up to 254 ASCII characters. |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Security.CsrKeySize (Read or Write)

| | |
|---|---|
| Description | Specifies the SSL asymmetric key size for the CSRs. |
| Legal Values | • 1024<br>• 2048 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Security.CsrLocalityName (Read or Write)

| | |
|---|---|
| Description | Specifies the CSR Locality (L). |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Security.CsrOrganizationName (Read or Write)

| | |
|---|---|
| Description | Specifies the CSR Organization Name (O). |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Security.CsrOrganizationUnit (Read or Write)

| | |
|---|---|
| Description | Specifies the CSR Organization Unit (OU). |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Security.CsrStateName (Read or Write)

| | |
|---|---|
| Description | Specifies the CSR State Name (S). |
| Legal Values | String of up to 254 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Serial

The objects in this group provide configuration parameters for the serial interface of iDRAC.

**NOTE:** This is supported only for rack and tower systems.

### iDRAC.Serial.BaudRate (Read or Write)

| | |
|---|---|
| Description | Sets the Baud rate on the iDRAC serial port. |
| Legal Values | • 9600<br>• 19200<br>• 38400<br>• 57600<br>• 115200 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Serial.Command (Read or Write)

| | |
|---|---|
| Description | Specifies a serial command that is executed after the user logs into the serial console interface. |
| Legal Values | String of up to 128 ASCII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Serial.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the iDRAC serial console interface. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Serial.HistorySize (Read or Write)

| | |
|---|---|
| Description | Specifies the maximum size of the serial history buffer. |
| Legal Values | Integral values from 0 to 8192. |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Serial.IdleTimeout (Read or Write)

| | |
|---|---|
| Description | The maximum number of seconds to wait before an idle serial console session is disconnected. |
| Legal Values | 0 — No timeout and integral values from 60 - 10800 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Serial.NoAuth (Read or Write)

| | |
|---|---|
| Description | Enables or disables iDRAC serial console login authentication. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.SerialRedirection

The objects in this group manage Serial Redirection properties of iDRAC.

**NOTE:** This is supported only for rack and tower systems.

### iDRAC.SerialRedirection.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the console for COM2 port redirection. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SerialRedirection.QuitKey (Read or Write)

| | |
|---|---|
| Description | This key or key combination terminates the Virtual Console when using the console **COM2** command. |
| Legal Values | String of up to 4 ASCII characters. |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.SmartCard

The objects in this group enable you to access iDRAC using a smart card.

### iDRAC.SmartCard.SmartCardCRLEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the Certificate Revocation List (CRL). |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | Smart Card Logon has to be enabled. |

### iDRAC.SmartCard.SmartCardLogonEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables Smart card login support. |
| Legal Values | • 0- Disabled<br>• 1- Enabled<br>• 2- Enabled with Remote RACADM |

| | |
|---|---|
| Write Privilege | Configure iDRAC and Configure User |
| License Required | iDRAC7 Enterprise |
| Dependency | ActiveDirectory.SSOEnable has to be disabled |

# iDRAC.SNMP

The objects in this group enable you to configure the SNMP agent and trap capabilities.

## iDRAC.SNMP.AgentCommunity (Read or Write)

| | |
|---|---|
| Description | Specifies the SNMP community name to be used for SNMP traps. |
| Legal Values | String of up to 31 ACSII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.SNMP.AgentEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the SNMP Agent on the iDRAC. |
| Legal Values | • 0- Disabled<br>• 1- Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.SNMP.Alert.DestAddr (Read or Write)

| | |
|---|---|
| Description | IPv4, IPv6 or FQDN address of the target destination to receive alters. |
| Legal Values | Valid IPv4 or IPv6 or FQDN address |
| Write Privilege | Configure iDRAC |
| License Required | None |
| Dependency | None |

## iDRAC.SNMP.Alert.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables SNMP alert for the given index. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |

| | |
|---|---|
| License Required | None |
| Dependency | None |

### iDRAC.SNMP.SNMPProtocol (Read or Write)

| | |
|---|---|
| Description | Specified the SNMP protocol. |
| Legal Values | • 0- All<br>• 1- SNMPv3 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SNMP.TrapFormat (Read or Write)

| | |
|---|---|
| Description | Specifies the SNMP format. |
| Legal Values | • 0- SNMPv1<br>• 1- SNMPv2 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.SSH

The objects in this group provide configuration parameters for the SSH interface to iDRAC.

### iDRAC.SSH.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables SSH. |
| Legal Values | • 0- Disabled<br>• 1- Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SSH.Port (Read or Write)

| | |
|---|---|
| Description | Specifies the port number for the iDRAC SSH interface. |
| Legal Values | Integral values from 10 to 65535 |

| | |
|---|---|
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SSH.Timeout (Read or Write)

| | |
|---|---|
| Description | Defines the secure shell idle timeout. |
| Legal Values | Integral values from 0 to 10800 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.SysLog

The objects in this group provide the properties for configuration of the SMTP server.

### iDRAC.SysLog.Port (Read or Write)

| | |
|---|---|
| Description | Remote syslog port number. |
| Legal Values | Integral values from 1 to 65535 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SysLog.PowerLogEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the Power Log feature. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SysLog.PowerLogInterval (Read or Write)

| | |
|---|---|
| Description | Configure time delay for power logging. |
| Legal Values | Integral values from 1 to 1440 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

### iDRAC.SysLog.Server1 (Read or Write)

| | |
|---|---|
| Description | Name of remote syslog server 1. |
| Legal Values | String of up to 63 ACSII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SysLog.Server2 (Read or Write)

| | |
|---|---|
| Description | Name of remote syslog server 2. |
| Legal Values | String of up to 63 ACSII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SysLog.Server3 (Read or Write)

| | |
|---|---|
| Description | Name of remote syslog server 3. |
| Legal Values | String of up to 63 ACSII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.SysLog.SysLogEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables remote syslog. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Telnet

The objects in this group provide configuration parameters for the Telnet interface to iDRAC.

### iDRAC.Telnet.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables Telnet. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Telnet.Port (Read or Write)

| | |
|---|---|
| Description | Specifies the port number for the iDRAC Telnet interface. |
| Legal Values | Integral values from 10 to 65535 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### iDRAC.Telnet.Timeout (Read or Write)

| | |
|---|---|
| Description | Defines the Telnet idle timeout. |
| Legal Values | Integral values from 0 to 10800 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Time

The objects in this group enable you to manage timezone setting for iDRAC.

### iDRAC.Time.Timezone (Read or Write)

| | |
|---|---|
| Description | Configure the time zone. |
| Legal Values | Valid time zone string of up to 32 ASCII characters For example: US/Central |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.Tuning

The objects in this group enable you to manage iDRAC tuning and configuration parameters.

## iDRAC.Tuning.DefaultCredentialWarning (Read or Write)

| | |
|---|---|
| Description | Enables or disables the default credentials warning. |
| Legal Values | • 0- Disabled<br>• 1- Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.Update

The objects in this group enable you to manage configuration parameters for iDRAC firmware update.

## iDRAC.Update.FwUpdateIPAddr (Read or Write)

| | |
|---|---|
| Description | Specifies the TFTP server address to be used for iDRAC firmware update operations. |
| Legal Values | Valid IPv4, IPv6, or FQDN address of the TFTP server |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Update.FwUpdatePath (Read or Write)

| | |
|---|---|
| Description | Specifies TFTP path where iDRAC firmware image resides on TFTP server. Path is relative to TFTP root folder. |
| Legal Values | String of up to 255 ACSII characters. For example: /images/12G/ |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Update.FwUpdateTFTPEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables iDRAC firmware updates from a TFTP server. |
| Legal Values | • 0- Disabled |

- 1- Enabled

| | |
|---|---|
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.UserDomain

The objects in this group enable you to manage the Active Directory user domain names.

## iDRAC.UserDomain.Name (Read or Write)

| | |
|---|---|
| Description | Specifies the Active Directory user domain name for a given index. |
| Legal Values | String of up to 255 ACSII characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.Users

The objects in this group enable you to manage information about all iDRAC users.

## iDRAC.Users.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables an individual user. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Both user name and password must be configured prior to enabling the user. |

## iDRAC.Users.IpmiLanPrivilege (Read or Write)

| | |
|---|---|
| Description | Specifies the maximum privilege on the IPMI LAN channel. |
| Legal Values | Integral values:<br>• 2 — User<br>• 3 — Operator<br>• 4 — Administrator<br>• 15 — No access |
| Write Privilege | Configure iDRAC |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Both user name and password must be configured prior to setting this object. |

## iDRAC.Users.IpmiSerialPrivilege (Read or Write)

| | |
|---|---|
| Description | Specifies the maximum IPMI Serial privilege. |
| Legal Values | Integral values:<br>• 2 — User<br>• 3 — Operator<br>• 4 — Administrator<br>• 15 — No access |
| Write Privilege | Configure iDRAC and user |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Both user name and password must be configured prior to setting this object. |

## iDRAC.Users.Password (Write Only)

| | |
|---|---|
| Description | Configuring the iDRAC user password. |
| Legal Values | String of up to 254 characters |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Cannot be set without first setting the user name. |

## iDRAC.Users.Privilege (Read or Write)

| | |
|---|---|
| Description | Specifies the role-based authority privileges allowed for the user. |
| Legal Values | Integral values from 0 to 511 (0x1FF) |
| Write Privilege | Configure iDRAC and Configure User |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Both user name and password must be configured prior to setting this object. |

## iDRAC.Users.SNMPv3AuthenticationType (Read or Write)

| | |
|---|---|
| Description | Configure SNMPv3 authentication protocol type. |
| Legal Values | • 0- None<br>• 1- MD5<br>• 2- SHA |

| | |
|---|---|
| Write Privilege | Configure iDRAC and Configure User |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Users.SNMPv3Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables SNMPv3 support for an iDRAC User. |
| Legal Values | • 0- Disabled<br>• 1- Enabled |
| Write Privilege | Configure iDRAC and Configure User |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Users.SNMPv3PrivacyType (Read or Write)

| | |
|---|---|
| Description | Configrue SNMPv3 privacy protocol type. |
| Legal Values | • 0- None<br>• 1- DES<br>• 2- AES |
| Write Privilege | Configure iDRAC and Configure User |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.Users.SolEnable (Read or Write)

| | |
|---|---|
| Description | Enables or Disables SOL for the user. |
| Legal Values | • 0- Disabled<br>• 1- Enabled |
| Write Privilege | Configure iDRAC and Configure User |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Both user name and password must be configured prior to sets. |

## iDRAC.Users.UserName (Read or Write)

| | |
|---|---|
| Description | iDRAC User Name. |
| Legal Values | String of up to 16 ASCII characters |
| Write Privilege | Configure iDRAC and Configure User |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

# iDRAC.VirtualConsole

The objects in this group enable you to manage virtual console configuration parameters of iDRAC.

## iDRAC.VirtualConsole.AccessPrivilege (Read or Write)

| | |
|---|---|
| Description | Default action upon session sharing request timeout. |
| Legal Values | • 0- Deny Access<br>• 1- Read Only Access<br>• 2 - Full Access |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualConsole.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables the Virtual Console. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualConsole.EncryptEnable (Read or Write)

| | |
|---|---|
| Description | Encrypts the video in a Virtual Console session. |
| Legal Values | • None<br>• AES |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualConsole.LocalVideo (Read or Write)

| | |
|---|---|
| Description | Enables or disables the local server video. |
| Legal Values | • 0 — Disabled |

- 1 — Enabled

| | |
|---|---|
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualConsole.MaxSessions (Read or Write)

| | |
|---|---|
| Description | Specifies maximum number of virtual console sessions. |
| Legal Values | Integral values from 1 to 4 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualConsole.PluginType (Read or Write)

| | |
|---|---|
| Description | Specifies the plugin type to use when running the Virtual console from browser. |
| Legal Values | • 0 — Active X<br>• 1 — Java |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualConsole.Port (Read or Write)

| | |
|---|---|
| Description | Specifies the virtual KVM port. |
| Legal Values | Integral values from 10 to 65535 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualConsole.Timeout (Read or Write)

| | |
|---|---|
| Description | Defines the idle timeout in seconds for the virtual console. |
| Legal Values | Integral values from 60 to 10800 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.VirtualMedia

The objects in this group enable you to manage virtual media configuration parameters of iDRAC.

## iDRAC.VirtualMedia.Attached (Read or Write)

| | |
|---|---|
| Description | Used to attach virtual devices to the system via the USB bus. |
| Legal Values | • 0- Detached<br>• 1- Attached<br>• 2- AutoAttach |
| Write Privilege | Virtual Media |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualMedia.BootOnce (Read or Write)

| | |
|---|---|
| Description | Enables or disables the virtual media boot once feature of the iDRAC. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Virtual Media |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.VirtualMedia.FloppyEmulation (Read or Write)

| | |
|---|---|
| Description | Enables of disables floppy emulation of the attached virtual media. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Virtual Media |
| License Required | iDRAC7 Express (For Blades) or iDRAC7 Enterprise |
| Dependency | None |

# iDRAC.WebServer

The objects in this group provide configuration parameters for iDRACs' Webserver.

## iDRAC.WebServer.Enable (Read or Write)

| | |
|---|---|
| Description | Enables or disables iDRAC WebServer. |
| Legal Values | • 0 — Disabled<br>• 1 — Enabled |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.WebServer.HttpPort (Read or Write)

| | |
|---|---|
| Description | Specifies the port number for HTTP communication with the iDRAC. |
| Legal Values | Integral values from 10 to 65535 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.WebServer.HttpsPort (Read or Write)

| | |
|---|---|
| Description | Specifies the port number for HTTPs communication with the iDRAC. |
| Legal Values | Integral values from 1 to 65535 |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.WebServer.LowerEncryptionBitLength (Read or Write)

| | |
|---|---|
| Description | Lower Encryption Bit Length. |
| Legal Values | • 0 — Disabled (Auto Negotiate)<br>• 1 — Enabled (128-Bit or Higher) |
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## iDRAC.WebServer.Timeout (Read or Write)

| | |
|---|---|
| Description | Defines the webserver timeout. |
| Legal Values | Integral values from 60 to 10800 |

| | |
|---|---|
| Write Privilege | Configure iDRAC |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# BIOS.BiosBootSettings

You can manage the BIOS boot settings using the objects in this group.

## BIOS.BiosBootSettings.BiosBootSeq (Read or Write)

| | |
|---|---|
| Description | Determines the Bios boot sequence of the system. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if BootMode is set to UEFI |

## BIOS.BiosBootSettings.BootMode (Read or Write)

| | |
|---|---|
| Description | Determines the boot mode of the system. |
| Legal Values | BIOS<br>UEFI |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.BiosBootSettings.BootSeqRetry (Read or Write)

| | |
|---|---|
| Description | Enables or disables the boot sequence retry feature. |
| Legal Values | Enabled<br>Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.BiosBootSettings.HddSeq (Read or Write)

| | |
|---|---|
| Description | HDD boot sequence |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | Read Only if BootMode is set to UEFI |

### BIOS.BiosBootSettings.UefiBootSeq (Read or Write)

| | |
|---|---|
| Description | UEFI boot sequence |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if BootMode is set to BIOS |

## BIOS.IntegratedDevices

You can use the objects in this group to manage the integrated devices such as internal NIC and integrated USB.

### BIOS.IntegratedDevices.EmbNic1 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the operating system interface of the embedded NIC1. |
| Legal Values | • Enabled<br>• EnabledPxe<br>• EnablediScsi<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.IntegratedDevices.EmbNic1Nic2 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the operating system interface of the embedded NIC1 and NIC2 controllers. |
| Legal Values | • Enabled<br>• Disabled OS<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.EmbNic2 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the operating system interface of the embedded NIC2. |
| Legal Values | • Enabled<br>• EnabledPxe<br>• EnablediScsi<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.EmbNic3 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the operating system interface of the embedded NIC3. |
| Legal Values | • Enabled<br>• EnabledPxe<br>• EnablediScsi<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.EmbNic3Nic4 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the operating system interface of the embedded NIC3 and NIC4 controllers. |
| Legal Values | • Enabled<br>• Disabled OS<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.EmbNic4 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the operating system interface of the embedded NIC4. |
| Legal Values | • Enabled<br>• EnabledPxe<br>• EnablediScsi<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.EmbVideo (Read or Write)

| | |
|---|---|
| Description | Enables or disables the BIOS support for the embedded video controller. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.IntegratedNetwork1 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the Integrated Network Card 1. |
| Legal Values | • Enabled<br>• Disabled OS |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.IntegratedNetwork2 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the integrated network card 2. |
| Legal Values | • Enabled<br>• DisabledOS |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.IntegratedRaid (Read or Write)

| | |
|---|---|
| Description | Enables or disables the integrated RAID controller. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.IntegratedSas (Read or Write)

| | |
|---|---|
| Description | Enables or disables the integrated SAS controller. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.InternalSdCard (Read or Write)

| | |
|---|---|
| Description | Enables or disables the internal SD Card port. |
| Legal Values | • On<br>• Off |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.InternalSdCardRedundancy (Read or Write)

| | |
|---|---|
| Description | Sets the SD Card redundancy mode. |
| Legal Values | • Mirror<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | Read Only if 'InternalSdCard' is set to 'Off'. |

## BIOS.IntegratedDevices.InternalUsb (Read or Write)

| | |
|---|---|
| Description | Enable or disable the internal USB port. |
| Legal Values | • On<br>• Off |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.InternalUsb1 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the internal USB port 1. |
| Legal Values | • On<br>• Off |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.InternalUsb2 (Read or Write)

| | |
|---|---|
| Description | Enables or disables the internal USB port 2. |
| Legal Values | • On<br>• Off |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.IntegratedDevices.OsWatchdogTimer (Read or Write)

| | |
|---|---|
| Description | Enables or disables timer initialization by the operating system. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.IntegratedDevices.SriovGlobalEnable (Read or Write)

| | |
|---|---|
| Description | Enables or disables BIOS configuration of Single Root I/O Virtualization (SR-IOV) devices. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.IntegratedDevices.UsbPorts (Read or Write)

| | |
|---|---|
| Description | Sets the user accessible USB ports. |
| Legal Values | • All on<br>• Only back ports on<br>• All off |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings

Use the objects in this group to manage the memory related configuration settings.

### BIOS.MemSettings.MemLowPower (Read or Write)

| | |
|---|---|
| Description | Enables or disables the low power mode of the memory. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.MemSettings.MemOpMode (Read Only)

| | |
|---|---|
| Description | Current memory operating mode. |
| Legal Values | • OptimizerMode<br>• SpareMode |

| | |
|---|---|
| | • MirrorMode<br>• AdvEccMode<br>• SpareWithAdvEccMode |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.MemOptimizer (Read or Write)

| | |
|---|---|
| Description | Configure the memory optimizer setting. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.MemOpVoltage (Read Only)

| | |
|---|---|
| Description | Operating voltage of memory. |
| Legal Values | • AutoVolt<br>• Volt15V |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.MemTest (Read or Write)

| | |
|---|---|
| Description | Specifies whether BIOS software-based system memory tests are conducted during POST. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.MemVolt (Read or Write)

| | |
|---|---|
| Description | Sets the DIMM voltage selection. |
| Legal Values | • AutoVolt<br>• Volt135V<br>• Volt15V |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysProfileSettings.SysProfile` is set to `Custom` |

## BIOS.MemSettings.NodeInterleave (Read or Write)

| | |
|---|---|
| Description | If the system is configured with matching memory this field enables node interleaving. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.RedundantMem (Read or Write)

| | |
|---|---|
| Description | Enables or disables the redundant memory feature. |
| Legal Values | • Disabled<br>• Spare<br>• Mirror<br>• IntraNodeMirror<br>• DimmSpare<br>• Dddc |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.RedundantMemCfgValid (Read Only)

| | |
|---|---|
| Description | Redundant Memory Configuration Valid |
| Legal Values | • Invalid |

| | |
|---|---|
| | • Valid |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.RedundantMemInUse (Read Only)

| | |
|---|---|
| Description | Display the current redundant memory setting in BIOS. |
| Legal Values | • NotInUse<br>• InUse |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.SnoopFilter (Read or Write)

| | |
|---|---|
| Description | Enables or disables the snoop filter option. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.SysMemSize (Read Only)

| | |
|---|---|
| Description | Indicates the current amount of main memory in the system. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MemSettings.SysMemSpeed (Read Only)

| | |
|---|---|
| Description | Indicates the current clock frequency of the main memory. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

### BIOS.MemSettings.SysMemType (Read Only)

| | |
|---|---|
| Description | Indicates the current type of main memory installed in the system. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.MemSettings.SysMemVolt (Read Only)

| | |
|---|---|
| Description | Displays the current operating voltage of main memory. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.MemSettings.VideoMem (Read Only)

| | |
|---|---|
| Description | Indicates the total amount of video memory available to the embedded video controller. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MiscSettings

Use the objects in this group to manage the miscellaneous objects settings.

### BIOS.MiscSettings.AssetTag (Read or Write)

| | |
|---|---|
| Description | Displays the current asset tag and the asset tag can be modified. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MiscSettings.ErrPrompt (Read or Write)

| | |
|---|---|
| Description | Enables or disables the F1 and F2 prompt on error. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MiscSettings.NumLock (Read or Write)

| | |
|---|---|
| Description | Determines whether the system boots with Num Lock enabled or disabled. This is not applicable for 84-key keyboards. |
| Legal Values | • On<br>• Off |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MiscSettings.ReportKbdErr (Read or Write)

| | |
|---|---|
| Description | Enables or disables the keyboard-related error messages to be reported at system startup. |
| Legal Values | • Report<br>• No report |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.MiscSettings.SystemUefiShell (Read or Write)

| | |
|---|---|
| Description | Enables or disables the System UEFI Shell as a UEFI boot option choice. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

# BIOS.OneTimeBoot

You can manage the one time boot settings using the objects in this group.

## BIOS.OneTimeBoot.OneTimeBootMode (Read or Write)

| | |
|---|---|
| Description | Configure the one time boot mode settings. |
| Legal Values | • Disabled<br>• OneTimeBootSeq<br>• OneTimeHddSeq<br>• OneTimeUefiBootSeq |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.OneTimeBoot.OneTimeBootSeqDev (Read or Write)

| | |
|---|---|
| Description | Configure the one time boot sequence device in BIOS. |
| Legal Values | HardDisk List |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `OneTimeBootMode`is not set to `OneTimeBootSeq`. |

## BIOS.OneTimeBoot.OneTimeCustomBootStr (Read or Write)

| | |
|---|---|
| Description | Configure the one time custom boot device. |
| Legal Values | Custom device list |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `OneTimeBootMode`is set to `Disabled`or set to `OneTimeBootSeq`or `OneTimeHddSeq` or `OneTimeUefiBootSeq` |

## BIOS.OneTimeBoot.OneTimeHddSeqDev (Read or Write)

| | |
|---|---|
| Description | Configure the one time Hard-Disk Drive (HDD) sequence for BIOS. |
| Legal Values | RAID FQDD |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `OneTimeBootMode`is not set to `OneTimeHddSeq` |

### BIOS.OneTimeBoot.OneTimeUefiBootSeqDev (Read or Write)

| | |
|---|---|
| Description | Configure the one time UEFI Boot Sequence device. |
| Legal Values | NIC or Optical Device list |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `OneTimeBootMode`is not set to `OneTimeUefiBootSeq` |

## BIOS.ProcSettings

Use the objects in this group to configure the processor settings.

### BIOS.ProcSettings.CorePerfBoost (Read or Write)

| | |
|---|---|
| Description | Enables or disables CPU core performance booster. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.ProcSettings.DataReuse ( Read / Write )

| | |
|---|---|
| Description | Enables or disables data reuse in cache. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.ProcSettings.DcuIpPrefetcher (Read or Write)

| | |
|---|---|
| Description | Enables or disables Data Cache Unit (DCU) IP Prefetcher. |
| Legal Values | • Enabled |

| | |
|---|---|
| | • Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.DcuStreamerPrefetcher (Read or Write)

| | |
|---|---|
| Description | Enables or disables Data Cache Unit (DCU) Streamer Prefetcher. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.DmaVirtualization (Read or Write)

| | |
|---|---|
| Description | Enables or disables additional hardware capabilities for DMA remapping and virtualization are available. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.LogicalProc (Read or Write)

| | |
|---|---|
| Description | Enable to report all logical processors and disable to report one logical processor per core. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc1Brand (Read Only)

| | |
|---|---|
| Description | Provides the processor brand name. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc1Id (Read Only)

| | |
|---|---|
| Description | Provides the processor's family model and stepping values. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc1L2Cache (Read Only)

| | |
|---|---|
| Description | Amount of memory in the corresponding processor cache. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc1L3Cache (Read Only)

| | |
|---|---|
| Description | Amount of memory in the corresponding processor cache. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc1NumCores (Read Only)

| | |
|---|---|
| Description | Number of cores in the processor package. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

## BIOS.ProcSettings.Proc2Brand (Read Only)

| | |
|---|---|
| Description | Provides the processor brand name. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc2Id (Read Only)

| | |
|---|---|
| Description | Processor's family model and stepping values. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc2L2Cache (Read Only)

| | |
|---|---|
| Description | Amount of memory in the corresponding processor cache. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc2L3Cache (Read Only)

| | |
|---|---|
| Description | Amount of memory in the corresponding processor cache. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc2NumCores (Read Only)

| | |
|---|---|
| Description | Number of cores in the processor package. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

## BIOS.ProcSettings.Proc3Brand (Read Only)

| | |
|---|---|
| Description | Brand text provided by the processor manufacturer. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc3Id (Read Only)

| | |
|---|---|
| Description | Processor's family model and stepping values. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc3L2Cache (Read Only)

| | |
|---|---|
| Description | Amount of memory in the corresponding processor cache. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc3L3Cache (Read Only)

| | |
|---|---|
| Description | Amount of memory in the corresponding processor cache. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc3NumCores (Read Only)

| | |
|---|---|
| Description | Number of cores in the processor package. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

## BIOS.ProcSettings.Proc4Brand (Read Only)

| | |
|---|---|
| Description | Brand text provided by the processor manufacturer. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc4Id (Read Only)

| | |
|---|---|
| Description | Processor's family model and stepping values. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc4L2Cache (Read Only)

| | |
|---|---|
| Description | Amount of memory in the corresponding processor cache. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc4L3Cache (Read Only)

| | |
|---|---|
| Description | Amount of memory in the corresponding processor cache. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.Proc4NumCores (Read Only)

| | |
|---|---|
| Description | Number of cores in the processor package. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

## BIOS.ProcSettings.Proc64bit (Read Only)

| | |
|---|---|
| Description | Specifies whether the installed processor(s) support 64-bit extensions. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcAdjCacheLine (Read or Write)

| | |
|---|---|
| Description | Enables or disables the system optimization for applications that require high utilization of sequential memory access. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcBusSpeed (Read Only)

| | |
|---|---|
| Description | Bus speed of the processor(s). |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcCores (Read or Write)

| | |
|---|---|
| Description | Controls the number of enabled cores in each processor. |
| Legal Values | • Single<br>• All<br>• 1<br>• 2<br>• 4<br>• 6<br>• 8<br>• 10 |

| | |
|---|---|
| | • 12<br>• 14<br>• 16 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcCoreSpeed (Read Only)

| | |
|---|---|
| Description | Clock speed of the processor(s). |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcDramPrefetcher (Read or Write)

| | |
|---|---|
| Description | Enable to turn on the DRAM prefetch unit in the Northbridge. Disable to prevent DRAM references from triggering DRAM prefetch requests. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcExecuteDisable (Read or Write)

| | |
|---|---|
| Description | Specifies whether Execute Disable Memory Protection Technology is enabled or disabled. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcHpcMode (Read or Write)

| | |
|---|---|
| Description | Configure processor's HPC mode. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcHtAssist (Read or Write)

| | |
|---|---|
| Description | When enabled it provides filtering of broadcast probes to improve HyperTransport I/O Link bandwidth and performance on multi-node systems. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcHwPrefetcher (Read or Write)

| | |
|---|---|
| Description | When enabled the processor is able to prefetch extra cache lines for every memory request. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcHyperTransport (Read or Write)

| | |
|---|---|
| Description | Specifies the supported HyperTransport I/O Link Specification. |
| Legal Values | • HT1<br>• HT3 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

## BIOS.ProcSettings.ProcSoftwarePrefetcher (Read or Write)

| | |
|---|---|
| Description | Enables or disables the hardware prefetcher for considering software prefetches when detecting strides for prefetch requests. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.ProcVirtualization (Read or Write)

| | |
|---|---|
| Description | When enabled, the additional hardware capabilities provided by virtualization technology are available for use. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.QpiBandwidthPriority (Read or Write)

| | |
|---|---|
| Description | Sets the bandwidth priority to compute (default) or I/O. |
| Legal Values | • InputOutput<br>• Compute |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.ProcSettings.QpiSpeed (Read or Write)

| | |
|---|---|
| Description | Controls QuickPath Interconnect data rate settings. |
| Legal Values | • MaxDataRate<br>• 8 GTps<br>• 7 GTps<br>• 6 GTps |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.ProcSettings.RtidSetting (Read or Write)

| | |
|---|---|
| Description | Allocates more RTIDs to the remote socket increasing cache performance between the sockets. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings

Use the objects in this group to configure the BIOS SATA settings.

### BIOS.SataSettings.EmbSata (Read or Write)

| | |
|---|---|
| Description | Allows the embedded SATA to be set to Off, ATA, AHCI, or RAID Mode. |
| Legal Values | • Off<br>• AtaMode<br>• RaidMode<br>• AhciMode |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.SataSettings.eSataPort1 (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.eSataPort1Capacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.eSataPort1DriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.eSataPort1Model (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortA (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `EmbSata` is not set to `AtaMode`. |

## BIOS.SataSettings.SataPortACapacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortADriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortAModel (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortB (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `EmbSata`is not set to `AtaMode`. |

## BIOS.SataSettings.SataPortBCapacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortBDriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortBModel (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortC (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `EmbSata` is not set to `AtaMode`. |

## BIOS.SataSettings.SataPortCCapacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortCDriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortCModel (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortD (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `EmbSata`is not set to `AtaMode`. |

## BIOS.SataSettings.SataPortDCapacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortDDriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortDDriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortDModel (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortE (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `EmbSata`is not set to `AtaMode`. |

## BIOS.SataSettings.SataPortECapacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortEDriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortEModel (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortF (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `EmbSata`is not set to `AtaMode`. |

## BIOS.SataSettings.SataPortFCapacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortFDriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortFModel (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortG (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `EmbSata`is not set to `AtaMode`. |

## BIOS.SataSettings.SataPortGCapacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortGDriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SataSettings.SataPortGModel (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.SataSettings.SataPortH (Read or Write)

| | |
|---|---|
| Description | Sets the drive type of the selected device. |
| Legal Values | • Off<br>• Auto |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `EmbSata`is not set to `AtaMode`. |

### BIOS.SataSettings.SataPortHCapacity (Read Only)

| | |
|---|---|
| Description | Displays the total capacity of a hard-disk drive. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.SataSettings.SataPortHDriveType (Read Only)

| | |
|---|---|
| Description | Indicates type of device attached to this SATA port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.SataSettings.SataPortHModel (Read Only)

| | |
|---|---|
| Description | Displays the drive model of the selected device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SerialCommSettings

Use the objects in this group to manage the serial port settings.

## BIOS.SerialCommSettings.ConTermType (Read or Write)

| | |
|---|---|
| Description | Configures the remote console's terminal type. |
| Legal Values | • Vt100Vt220<br>• Ansi |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SerialCommSettings.ExtSerialConnector (Read or Write)

| | |
|---|---|
| Description | Associate the External Serial Connector to Serial 1 or Serial 2 or Remote Access Device. |
| Legal Values | • Serial1<br>• Serial2<br>• RemoteAccDevice |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SerialCommSettings.FailSafeBaud (Read or Write)

| | |
|---|---|
| Description | BIOS attempts to determine the baud rate automatically. This failsafe baud rate is used only if the attempt fails. |
| Legal Values | • 115200<br>• 57600<br>• 19200<br>• 9600 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SerialCommSettings.RedirAfterBoot (Read or Write)

| | |
|---|---|
| Description | Enables or disables the BIOS console redirection when the operating system is loaded. |
| Legal Values | • Enabled<br>• Disabled |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.SerialCommSettings.SerialComm (Read or Write)

| | |
|---|---|
| Description | Controls the serial communication options. |
| Legal Values | • Off<br>• OnNoConRedir<br>• OnConRedirCom1<br>• OnConRedirCom2<br>• OnConRedir |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.SerialCommSettings.SerialPortAddress (Read or Write)

| | |
|---|---|
| Description | Port address for the Serial Devices. (COM1=0x3F8 COM2=0x2F8) |
| Legal Values | • Serial1Com1Serial2Com2<br>• Serial1Com2Serial2Com1<br>• Com1<br>• Com2 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SlotDisablement

Use the objects in this group to manage the slot disablement settings.

### BIOS.SlotDisablement.Slot1 (Read or Write)

| | |
|---|---|
| Description | Control the configuration of the card installed in slot1. |
| Legal Values | • Enabled<br>• Disabled<br>• BootDriverDisabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

## BIOS.SlotDisablement.Slot2 (Read or Write)

| | |
|---|---|
| Description | Control the configuration of the card installed in slot 2. |
| Legal Values | • Enabled<br>• Disabled<br>• BootDriverDisabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SlotDisablement.Slot3 (Read or Write)

| | |
|---|---|
| Description | Control the configuration of the card installed in slot 3. |
| Legal Values | • Enabled<br>• Disabled<br>• BootDriverDisabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SlotDisablement.Slot4 (Read or Write)

| | |
|---|---|
| Description | Control the configuration of the card installed in slot 4. |
| Legal Values | • Enabled<br>• Disabled<br>• BootDriverDisabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SlotDisablement.Slot5 (Read or Write)

| | |
|---|---|
| Description | Control the configuration of the card installed in slot 5. |
| Legal Values | • Enabled<br>• Disabled<br>• BootDriverDisabled |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.SlotDisablement.Slot6 (Read or Write)

| | |
|---|---|
| Description | Control the configuration of the card installed in slot 6. |
| Legal Values | • Enabled<br>• Disabled<br>• BootDriverDisabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### BIOS.SlotDisablement.Slot7 (Read or Write)

| | |
|---|---|
| Description | Control the configuration of the card installed in slot 7. |
| Legal Values | • Enabled<br>• Disabled<br>• BootDriverDisabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysInformation

Use the objects in this group to view information about system configuration.

### BIOS.SysInformation.SysMfrContactInfo (Read Only)

| | |
|---|---|
| Description | Provides information about the Original Equipment Manufacturer of this system. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysInformation.SystemBiosVersion (Read Only)

| | |
|---|---|
| Description | Provides the current revision of the system BIOS firmware. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysInformation.SystemCpldVersion (Read Only)

| | |
|---|---|
| Description | Displays the current revision of the system CPLD firmware. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysInformation.SystemManufacturer (Read Only)

| | |
|---|---|
| Description | Provides the name of the Original Equipment Manufacturer of this system. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysInformation.SystemModelName (Read Only)

| | |
|---|---|
| Description | Provides the product name of the system. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysInformation.SystemServiceTag (Read Only)

| | |
|---|---|
| Description | Provides the service tag assigned by the Original Equipment Manufacturer of this system. |
| Legal Values | None |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# BIOS.SysProfileSettings

Use the objects in this group to manage the system profile settings.

## BIOS.SysProfileSettings.MemFrequency (Read or Write)

| | |
|---|---|
| Description | Set the speed of the system memory to maximum performance, maximum reliability or a specific speed. |
| Legal Values | • MaxPerf<br>• 1600MHz<br>• 1333MHz<br>• 1067MHz<br>• 800MHz<br>• MaxReliability |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysProfileSettings.SysProfile`is set to `Custom`. |

## BIOS.SysProfileSettings.MemPatrolScrub (Read or Write)

| | |
|---|---|
| Description | Patrol scrubbing is a feature that searches the memory for errors and repairs correctable errors to prevent the accumulation of memory errors. |
| Legal Values | • Standard<br>• Extended<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysProfileSettings.SysProfile`is set to `Custom`. |

## BIOS.SysProfileSettings.MemPwrMgmt (Read or Write)

| | |
|---|---|
| Description | Enables or disables the memory to operate in power management mode. |
| Legal Values | • Enabled |

| | |
|---|---|
| | • Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysProfileSettings.MemRefreshRate (Read or Write)

| | |
|---|---|
| Description | Frequency at which memory is normally refreshed. |
| Legal Values | • 1x<br>• 2x |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysProfileSettings.SysProfile` is set to `Custom`. |

## BIOS.SysProfileSettings.PowerDelivery (Read or Write)

| | |
|---|---|
| Description | Sets the power delivery mode. |
| Legal Values | • MaxReliability<br>• MinPwr |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysProfileSettings.ProcC1E (Read or Write)

| | |
|---|---|
| Description | When enabled the processor is allowed to switch to minimum performance state when idle. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysProfileSettings.SysProfile` is set to `Custom`. |

## BIOS.SysProfileSettings.ProcCStates (Read or Write)

| | |
|---|---|
| Description | Enables or disables the processor C-States. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysProfileSettings.SysProfile` is set to `Custom`. |

## BIOS.SysProfileSettings.ProcPwrPerf (Read or Write)

| | |
|---|---|
| Description | Sets CPU power management to maximum performance operating system DBPM or System DBPM (DAPC) mode. |
| Legal Values | • MaxPerf<br>• MinPwr<br>• SysDbpm<br>• OsDbpm |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysProfileSettings.SysProfile` is set to `Custom`. |

## BIOS.SysProfileSettings.ProcTurboMode (Read or Write)

| | |
|---|---|
| Description | When enabled the processor can operate in Turbo Boost Mode. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysProfileSettings.SysProfile` is set to `Custom`. |

### BIOS.SysProfileSettings.SysProfile (Read or Write)

| | |
|---|---|
| Description | Sets the System Profile to Performance Per Watt (DAPC), Performance Per Watt (OS) Performance Dense Configuration, or Custom mode. |
| Legal Values | • PerfPerWattOptimizedOs<br>• PerfPerWattOptimizedDapc<br>• PerfOptimized<br>• Custom<br>• DenseCfgOptimized |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity

Use the objects in this group to manage the system security properties of the BIOS.

### BIOS.SysSecurity.AcPwrRcvry (Read or Write)

| | |
|---|---|
| Description | Specifies how the system responds after AC power is restored to the system. It is useful when the system is turned off with a power strip. |
| Legal Values | • On<br>• Off<br>• Last |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysSecurity.AcPwrRcvry`is set to `Off`. |

### BIOS.SysSecurity.AcPwrRcvryDelay (Read or Write)

| | |
|---|---|
| Description | Specifies how the system supports the staggering of power-up after AC power has been restored to the system. |
| Legal Values | • Immediate<br>• User<br>• Random |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

## BIOS.SysSecurity.AcPwrRcvryUserDelay (Read Only)

| | |
|---|---|
| Description | Controls the user defined AC Recovery Delay. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.IntelTxt (Read or Write)

| | |
|---|---|
| Description | Enables or disables Trusted Execution Technology. |
| Legal Values | • On<br>• Off |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if:<br>• `ProcSettings.ProcVirtualization` is `Disabled`<br>• `SysSecurity.TpmActivation` is `Deactivate`<br>• `SysSecurity.TpmActivation` is `Yes`<br>• `SysSecurity.TpmSecurity` is not set to `OnPbm` |

## BIOS.SysSecurity.NmiButton (Read or Write)

| | |
|---|---|
| Description | Enables or disables the NMI button on the front panel. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.PasswordStatus (Read or Write)

| | |
|---|---|
| Description | Locks the system password. |
| Legal Values | • Locked |

| | |
|---|---|
| | • Unlocked |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.PwrButton (Read or Write)

| | |
|---|---|
| Description | Enables or disables the power button on the front panel. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.SetupPassword (Read or Write)

| | |
|---|---|
| Description | Setup the system password. Optional parameter `-o <string>`is used with this object to provide old password as an authentication for changing the previously configured password to the new password.<br>The password can include the following:<br>• Up to 32 characters including whitespace.<br>• Contain numbers 0 through 9.<br>• Only lower case alphabets are accepted.<br>• Special characters accepted are +, ", ,, -, ., /, ;, [, \, ], `.<br>To enable password modification, J_EN_PASSWD should be installed.<br>To clear the already configured password, use the option available under F2 (system setup) during system boot. |
| Legal Values | String of up to 22 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.SysPassword (Read Only)

| | |
|---|---|
| Description | Provides the system password. Optional parameter `-o <string>` is used with this object to provide old password as an authentication for changing the previously configured password to the new password.<br>The password can include the following: |

| | |
|---|---|
| | • Up to 32 characters including whitespace.<br>• Contain numbers 0 through 9.<br>• Only lower case alphabets are accepted.<br>• Special characters accepted are +, ", ,, -, ., /, ;, [, \, ], `.<br><br>To enable password modification, J_EN_PASSWD should be installed.<br><br>To clear the already configured password, use the option available under F2 (system setup) during system boot. |
| Legal Values | String of up to 22 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.TcmActivation (Read or Write)

| | |
|---|---|
| Description | Set the operational state of the Trusted Cryptography Module (TCM). |
| Legal Values | • No change<br>• Activate<br>• Deactivate |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.TcmClear (Read or Write)

| | |
|---|---|
| Description | Warns that clearing the TPM causes loss of all keys in the TPM. This may affect booting to the operating system. |
| Legal Values | • Yes<br>• No |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.TcmSecurity (Read or Write)

| | |
|---|---|
| Description | Controls the reporting of the Trusted Cryptography Module (TCM) in the system. |
| Legal Values | • Off |

| | |
|---|---|
| | • On |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## BIOS.SysSecurity.TpmActivation (Read or Write)

| | |
|---|---|
| Description | Specify the operational state of the Trusted Platform Module (TPM). |
| Legal Values | • NoChange<br>• Activate<br>• Deactivate |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysSecurity.TpmSecurity` is set to `Off`. |

## BIOS.SysSecurity.TpmClear (Read or Write)

| | |
|---|---|
| Description | Warns that clearing the TPM causes loss of all keys in the TPM. This may affect booting of the operating system. |
| Legal Values | • Yes<br>• No |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Read Only if `SysSecurity.TpmSecurity` is set to `Off`. |

## BIOS.SysSecurity.TpmSecurity (Read or Write)

| | |
|---|---|
| Description | Controls the reporting of the Trusted Platform Module (TPM) in the system. |
| Legal Values | • Off<br>• OnPbm<br>• OnNoPbm |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# NIC.DCBSettings

The following section provides information about the objects in the NIC.DCBSettings group.

## NIC.DCBSettings.CongestionNotification (Read Only)

| | |
|---|---|
| Description | Indicates whether Congestion Notification capability is supported. |
| Legal Values | • Available<br>• Unavailable |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.DCBSettings.DCBExchangeProtocol (Read Only)

| | |
|---|---|
| Description | Indicates whether Data Center Bridging (DCB) Exchange Protocol capability is supported. |
| Legal Values | • Available<br>• Unavailable |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.DCBSettings.EnhancedTransmissionSelection (Read Only)

| | |
|---|---|
| Description | Indicates whether Enhanced Transmission Selection capability is supported. |
| Legal Values | • Available<br>• Unavailable |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.DCBSettings.PriorityFlowControl (Read Only)

| | |
|---|---|
| Description | Indicates whether Priority Flow Control capability is supported. |
| Legal Values | • Available |

| | |
|---|---|
| | • Unavailable |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# NIC.DeviceLevelConfig

Use the objects in this group to manage the device level configurations.

## NIC.DeviceLevelConfig.EVBModesSupport (Read Only)

| | |
|---|---|
| Description | Indicates the type of EVB Modes supported. |
| Legal Values | • VEB<br>• VEPA<br>• PE<br>• Multi-channel |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.DeviceLevelConfig.FlowControlSetting (Read or Write)

| | |
|---|---|
| Description | Configure type of Flow Control used. |
| Legal Values | • Auto<br>• TX:Send Pause on RX Overflow<br>• RX:Throttle TX on Pause Received<br>• TX RX Flow Control |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.DeviceLevelConfig.SRIOVSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether SR-IOV capability is supported. |
| Legal Values | • Available<br>• Unavailable |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |

| | |
|---|---|
| Dependency | None |

# NIC.FCOECapabilities

The following section provides information about the objects in the NIC.FCOECapabilities group.

## NIC.FCOECapabilities.AddressingMode (Read Only)

| | |
|---|---|
| Description | Indicates whether SPMA or FPMA addressing is used for FCoE transactions. |
| Legal Values | • SPMA<br>• FPMA |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCOECapabilities.MaxFrameSize (Read Only)

| | |
|---|---|
| Description | Indicates the maximum frame size for each FCoE frame. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCOECapabilities.MaxIOsPerSession (Read Only)

| | |
|---|---|
| Description | Indicates the maximum number of IOs supported per session. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCOECapabilities.MaxNPIVPerPort (Read Only)

| | |
|---|---|
| Description | Indicates the maximum number of NPIV WWN per port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCOECapabilities.MaxNumberExchanges (Read Only)

| | |
|---|---|
| Description | Indicates the maximum number of exchanges supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCOECapabilities.MaxNumberLogins (Read Only)

| | |
|---|---|
| Description | Indicates the maximum number of logins supported per port. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCOECapabilities.MaxNumberOfFCTargets (Read Only)

| | |
|---|---|
| Description | Indicates the maximum number of FC targets supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCOECapabilities.MaxNumberOutStandingCommands (Read Only)

| | |
|---|---|
| Description | Indicates the maximum number of outstanding commands supported across all sessions. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCOECapabilities.MTUReconfigurationSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether the MTU reconfiguration capability is supported. |
| Legal Values | • Available |

| | |
|---|---|
| | • Unavailable |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# NIC.FCoEConfiguration

The following section provides information about the objects in the NIC.FCoEConfiguration group.

## NIC.FCoEConfiguration.ConnectFirstFCoETarget (Read or Write)

| | |
|---|---|
| Description | Specifies whether FCoE initiator is used to connect to the first FCoE storage target defined. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCoEConfiguration.FirstFCoEBootTargetLUN (Read or Write)

| | |
|---|---|
| Description | LUN of the first FCoE storage target that the FCoE initiator will boot the system from when Connect attribute is enabled. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | FCoEConfiguration.ConnectFirstFCoETarget has to be Enabled |

## NIC.FCoEConfiguration.FirstFCoEFCFVLANID (Read or Write)

| | |
|---|---|
| Description | VLAN ID to be used to connect to the first FC storage target. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.FCoEConfiguration.FirstFCoEWWPNTarget (Read or Write)

| | |
|---|---|
| Description | World Wide Port Name (WWPN) of the first FCoE storage target. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.FCoEConfiguration.MTUParams (Read or Write)

| | |
|---|---|
| Description | Configure the MTU setting. |
| Legal Values | • Global<br>• Per DCB Priority<br>• Per VLAN |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCoEGenParams

The following section provides information about the objects in the NIC.FCoEGenParams group.

### NIC.FCoEGenParams.FCoEBootScanSelection (Read or Write)

| | |
|---|---|
| Description | Represents the adaptor behavior for booting the system from specified FCoE storage target or fabric discovered target. |
| Legal Values | • 0 - Disabled<br>• 1 - First LUN<br>• 2 - First LUN 0<br>• 3 - First LUN Not LUN 0<br>• 4 - Fabric Discovered LUN<br>• 5 - Specified LUN |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCoEGenParams.FCoEFabricDiscoveryRetryCnt (Read or Write)

| | |
|---|---|
| Description | Retry count for FCoE fabric discovery. |
| Legal Values | Values from 0 - 60 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCoEGenParams.FCoEFirstHddTarget (Read or Write)

| | |
|---|---|
| Description | Specifies whether the FCoE target is represented as the first HDD to the system. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCoEGenParams.FCoELnkUpDelayTime (Read or Write)

| | |
|---|---|
| Description | Specifies the time FCoE Initiator waits after an Ethernet link is established before sending any data over the network. Units are in seconds. |
| Legal Values | Values from 0 - 255 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FCoEGenParams.FCoELunBusyRetryCnt (Read or Write)

| | |
|---|---|
| Description | Specifies the number of connection retries the FCoE boot initiator will attempt if the FCoE target LUN is busy. |
| Legal Values | Values from 0 - 60 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.FCoEGenParams.FCoETgtBoot (Read or Write)

| | |
|---|---|
| Description | Enables the FCoE initiator to boot system to the FCoE target. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.FrmwImgMenu

The following section provides information about the objects in the NIC.FrmwImgMenu group.

### NIC.FrmwImgMenu.ControllerBIOSVersion (Read Only)

| | |
|---|---|
| Description | Indicates the controller BIOS version information. |
| Legal Values | String of up to 8 ASCII characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.FrmwImgMenu.EFIVersion (Read Only)

| | |
|---|---|
| Description | Indicates the EFI device driver version information. |
| Legal Values | String of up to 8 ASCII characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.FrmwImgMenu.FamilyVersion (Read Only)

| | |
|---|---|
| Description | Indicates the firmware family version information. |
| Legal Values | String of up to 8 ASCII characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# NIC.GlobalBandwidthAllocation

The following section provides information about the objects in the NIC.GlobalBandwidthAllocation group.

## NIC.GlobalBandwidthAllocation.MaxBandwidth (Read or Write)

| | |
|---|---|
| Description | Set the maximum percentage of port TX bandwidth allocated to partition. |
| Legal Values | Values from 0 - 100 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.GlobalBandwidthAllocation.MinBandwidth (Read or Write)

| | |
|---|---|
| Description | Set the minimum percentage of port TX bandwidth allocated to partition. |
| Legal Values | Values from 0 - 100 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

# NIC.IscsiFirstTgtParams

The following section provides information about the objects in the NIC.IscsiFirstTgtParams group.

## NIC.IscsiFirstTgtParams.ConnectFirstTgt (Read or Write)

| | |
|---|---|
| Description | Enables or disables connecting to the first iSCSI target. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiFirstTgtParams.FirstTgtBootLun (Read or Write)

| | |
|---|---|
| Description | Set the first iSCSI storage target boot Logical Unit Number (LUN). |
| Legal Values | Values from 0 - 18446744073709551615 |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiFirstTgtParams.FirstTgtChapId (Read or Write)

| | |
|---|---|
| Description | Set the first iSCSI storage target Challenge-Handshake Authentication Protocol (CHAP) ID. |
| Legal Values | String of up to 128 ASCII characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiFirstTgtParams.FirstTgtChapPwd (Password)

| | |
|---|---|
| Description | Specifies the first iSCSI storage target Challenge-Handshake Authentication Protocol (CHAP) secret (target CHAP password). |
| Legal Values | String of up to 16 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiFirstTgtParams.FirstTgtIpAddress (Read or Write)

| | |
|---|---|
| Description | Set the IP address of the first iSCSI target. |
| Legal Values | Valid IPv4 or IPv6 address |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiFirstTgtParams.FirstTgtIscsiName (Read or Write)

| | |
|---|---|
| Description | Set the iSCSI Qualified Name (IQN) of the first iSCSI storage target. |
| Legal Values | String of upto 223 ASCII characters<br>**NOTE:** The legal value range may be smaller than the maximum size of 223, based on the vendor configuration of the NIC cards. |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

### NIC.IscsiFirstTgtParams.FirstTgtTcpPort (Read or Write)

| | |
|---|---|
| Description | Set the TCP Port number of the first iSCSI target. |
| Legal Values | Values from 1 - 65535 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiGenParams

The following section provides information about the objects in the NIC.IscsiGenParams group.

### NIC.IscsiGenParams.ChapAuthEnable (Read or Write)

| | |
|---|---|
| Description | Enable or disable the ability of the initiator to use CHAP authentication when connecting to the iSCSI target. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

### NIC.IscsiGenParams.ChapMutualAuth (Read or Write)

| | |
|---|---|
| Description | Enables or disables mutual CHAP authentication between the iSCSI initiator and target. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.IscsiGenParams.DhcpVendId (Read or Write)

| | |
|---|---|
| Description | Control what Vendor ID is presented to the DHCP service. |
| Legal Values | String of upto 255 ASCII characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiGenParams.FirstHddTarget (Read or Write)

| | |
|---|---|
| Description | Enables or disables to check if the iSCSI target appears as the first hard disk drive (HDD) in the system. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiGenParams.IpAutoConfig (Read or Write)

| | |
|---|---|
| Description | Controls the source of the initiator IP address DHCP or static assignment. This option is specific to IPv6. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'IscsiGenParams.IpVer' is set to 'IPv4' and 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiGenParams.IpVer (Read or Write)

| | |
|---|---|
| Description | Controls whether IPv4 or IPv6 network addressing is used for iSCSI initiator and targets. |
| Legal Values | • Ipv4<br>• Ipv6<br>• None |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiGenParams.IscsiViaDHCP (Read or Write)

| | |
|---|---|
| Description | Enables the acquisition of iSCSI target parameters from DHCP. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiGenParams.LnkUpDelayTime (Read or Write)

| | |
|---|---|
| Description | Set the time to allow for link to establish before driver initialization. |
| Legal Values | Values from 0 - 255 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiGenParams.LunBusyRetryCnt (Read or Write)

| | |
|---|---|
| Description | Specifies the number of connection attempts the iSCSI boot initiator will attempt if the iSCSI target LUN is busy. |
| Legal Values | Values from 0 - 60 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiGenParams.TcpIpViaDHCP (Read or Write)

| | |
|---|---|
| Description | Setting to enable acquisition of IPv4 TCP/IP parameters from DHCP. |
| Legal Values | • Enabled<br>• Disabled |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'IscsiGenParams.IpVer' is set to 'IPv6' and 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

### NIC.IscsiGenParams.TcpTimestmp (Read or Write)

| | |
|---|---|
| Description | Enables or disables use of TCP timestamps in network packets as defined in RFC 1323. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

### NIC.IscsiGenParams.WinHbaBootMode (Read or Write)

| | |
|---|---|
| Description | When enabled, it enables iSCSI Offload HBA boot mode and disables iSCSI software initiator boot. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.IscsiInitiatorParams

The following section provides information about the objects in the NIC.IscsiInitiatorParams group.

### NIC.IscsiInitiatorParams.IscsiInitiatorChapId (Read or Write)

| | |
|---|---|
| Description | Set the iSCSI initiator Challenge-Handshake Authentication Protocol (CHAP) ID. |
| Legal Values | String of up to 128 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiInitiatorParams.IscsiInitiatorChapPwd (Password)

| | |
|---|---|
| Description | Set the iSCSI initiator Challenge-Handshake Authentication Protocol (CHAP) secret (password). |
| Legal Values | String of 12 - 16 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiInitiatorParams.IscsiInitiatorGateway (Read or Write)

| | |
|---|---|
| Description | Specifies the Default Gateway of the iSCSI initiator. |
| Legal Values | String of 2 to 39 characters (Ipv4 or Ipv6 gateway) |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not Available if 'VndrConfigGroup.iSCSIBootSupport' is Unavailable. |

## NIC.IscsiInitiatorParams.IscsiInitiatorIpAddr (Read or Write)

| | |
|---|---|
| Description | Specifies the IP address of the iSCSI initiator. |
| Legal Values | String of 2 to 39 characters (Ipv4 or Ipv6 address) |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiInitiatorParams.IscsiInitiatorName (Read or Write)

| | |
|---|---|
| Description | Specifies the initiator iSCSI Qualified Name (IQN). |
| Legal Values | String of upto 223 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

### NIC.IscsiInitiatorParams.IscsiInitiatorPrimDns (Read or Write)

| | |
|---|---|
| Description | Specifies the Primary DNS IP address of the iSCSI initiator. |
| Legal Values | String of 2 to 39 characters (Ipv4 or Ipv6 gateway) |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

### NIC.IscsiInitiatorParams.IscsiInitiatorSecDns (Read or Write)

| | |
|---|---|
| Description | Specifies the Secondary DNS IP address of the iSCSI initiator. |
| Legal Values | String of 2 to 39 characters (Ipv4 or Ipv6 gateway) |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

### NIC.IscsiInitiatorParams.IscsiInitiatorSubnet (Read or Write)

| | |
|---|---|
| Description | Specifies the IPv4 Subnet Mask of the iSCSI initiator. |
| Legal Values | String of 7 to 15 characters (IPv4 Subnet) |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

### NIC.IscsiInitiatorParams.IscsiInitiatorSubnetPrefix (Read or Write)

| | |
|---|---|
| Description | Specifies the IPv6 Subnet Mask Prefix of the iSCSI initiator. |
| Legal Values | String of 2 to 39 characters (IPv6 Subnet) |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiSecondaryDeviceParams

The following section provides information about the objects in the NIC.IscsiSecondaryDeviceParams group.

### NIC.IscsiSecondaryDeviceParams.SecondaryDeviceMacAddr (Read or Write)

| | |
|---|---|
| Description | Specifies the MAC address of a secondary iSCSI boot adapter for redundancy in case of boot failure. |
| Legal Values | String of up to 17 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

### NIC.IscsiSecondaryDeviceParams.UseIndTgtName (Read or Write)

| | |
|---|---|
| Description | Specifies whether to use Independent Target Name when multi-path I/O is enabled. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

### NIC.IscsiSecondaryDeviceParams.UseIndTgtPortal (Read or Write)

| | |
|---|---|
| Description | Specifies whether to use Independent Target Portal when multi-path I/O is enabled. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiSecondTgtParams

Use the objects in this group to configure the second iSCSI storage.

### NIC.IscsiSecondTgtParams.ConnectSecondTgt (Read or Write)

| | |
|---|---|
| Description | Enables connecting to the second iSCSI target. |
| Legal Values | • Enabled |

- Disabled

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiSecondTgtParams.SecondTgtBootLun (Read or Write)

| | |
|---|---|
| Description | Specifies the second iSCSI storage target boot Logical Unit Number (LUN). |
| Legal Values | Values from 0 - 18446744073709551615 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiSecondTgtParams.SecondTgtChapId (Read or Write)

| | |
|---|---|
| Description | Specifies the second iSCSI storage target Challenge-Handshake Authentication Protocol (CHAP) ID |
| Legal Values | Values from 0 - 128. |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiSecondTgtParams.SecondTgtChapPwd (Password)

| | |
|---|---|
| Description | Specifies the second iSCSI storage target Challenge-Handshake Authentication Protocol (CHAP) secret (target CHAP password). |
| Legal Values | String of 12 - 16 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.IscsiSecondTgtParams.SecondTgtIpAddress (Read or Write)

| | |
|---|---|
| Description | Specifies the IP address of the second iSCSI target. |
| Legal Values | String of 2 to 39 characters (Ipv4 or Ipv6 address) |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

### NIC.IscsiSecondTgtParams.SecondTgtIscsiName (Read or Write)

| | |
|---|---|
| Description | Specifies the iSCSI Qualified Name (IQN) of the second iSCSI storage target. |
| Legal Values | String of up to 223 characters<br>**NOTE:** The legal value range may be smaller than the maximum size of 223, based on the vendor configuration of the NIC cards. |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

### NIC.IscsiSecondTgtParams.SecondTgtTcpPort (Read or Write)

| | |
|---|---|
| Description | Specifies the TCP Port number of the second iSCSI target. |
| Legal Values | Values from 1 - 65535 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | Not available if 'VndrConfigGroup.iSCSIBootSupport' is unavailable. |

## NIC.NICConfig

Use the objects in this group to configure the NIC properties.

### NIC.NICConfig.LegacyBootProto (Read or Write)

| | |
|---|---|
| Description | Select a non-UEFI network boot protocol. |
| Legal Values | • PXE<br>• iSCSI<br>• FCoE<br>• NONE<br>• iSCSIPrimary<br>• iSCSI Secondary |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.NICConfig.LnkSpeed (Read or Write)

| | |
|---|---|
| Description | Specifies the port speed used for the selected boot protocol. |
| Legal Values | • AutoNeg<br>• 10Mbps Half<br>• 10Mbps Full<br>• 100Mbps Half<br>• 100Mbps Full |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.NICConfig.VLanId (Read or Write)

| | |
|---|---|
| Description | Specifies the ID (tag) for the VLAN Mode. |
| Legal Values | Values from 1 - 4095 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | VLanMode must be enabled. |

## NIC.NICConfig.VLanMode (Read or Write)

| | |
|---|---|
| Description | Virtual LAN mode enables use of a VLAN tag to be used by vendor-defined boot protocols. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.NICConfig.WakeOnLan (Read or Write)

| | |
|---|---|
| Description | Enables the server to be powered on using an in-band magic packet. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.NICConfig.WakeOnLanLnkSpeed (Read or Write)

| | |
|---|---|
| Description | Select the port speed used for Wake on LAN mode. |
| Legal Values | • AutoNeg<br>• 10Mbps Half<br>• 10Mbps Full<br>• 100Mbps Half<br>• 100Mbps Full |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.NICPartitioningConfig

Use the objects in this group to configure the NIC partitioning properties.

### NIC.NICPartitioningConfig.NicPartitioning (Read or Write)

| | |
|---|---|
| Description | Enables or disables NIC partitioning for all device ports. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.NICPartitioningConfig.NumberPCIEFunctionsEnabled (Read Only)

| | |
|---|---|
| Description | Indicates the number of physical PCIe functions currently enabled on this port. |
| Legal Values | Values from 1 - 65535 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.NICPartitioningConfig.NumberPCIEFunctionsSupported (Read Only)

| | |
|---|---|
| Description | Indicates the number of physical PCIe functions supported on this port. |
| Legal Values | Values from 1 - 65535 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.BusDeviceFunction (Read Only)

| | |
|---|---|
| Description | Indicates the BIOS assigned PCIe. |
| Legal Values | String of up to 8 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.VndrConfigGroup.BlnkLeds (Read or Write)

| | |
|---|---|
| Description | Identifies the physical network port by blinking the associated LED. |
| Legal Values | Values from 0 - 15 |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.VndrConfigGroup.ChipMdl (Read Only)

| | |
|---|---|
| Description | Indicates the chip type or revision. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

### NIC.VndrConfigGroup.DCBXSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether Data Center Bridging (DCB) capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.DeviceName (Read Only)

| | |
|---|---|
| Description | Indicates the official product name of the device. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.EnergyEfficientEthernet (Read Only)

| | |
|---|---|
| Description | Indicates whether Energy Efficient Ethernet capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.FCoEBootSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether Fibre Channel over Ethernet Boot capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.FCoEOffloadMode (Read or Write)

| | |
|---|---|
| Description | Enables or disables FCoE personality on the port. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.FCoEOffloadSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether FCoE Offload capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.FeatureLicensingSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether Dell Feature Licensing capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.FIPMacAddr (Read Only)

| | |
|---|---|
| Description | Permanent FIP-MAC address for FCoE assigned during manufacturing. |
| Legal Values | String of up to 17 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.FlexAddressing (Read Only)

| | |
|---|---|
| Description | Indicates whether Dell FlexAddressing feature is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.iSCSIBootSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether iSCSI Boot capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.ISCSIMacAddr (Read Only)

| | |
|---|---|
| Description | Indicates the permanent MAC address for iSCSI offload assigned during manufacturing. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.iSCSIOffloadMode (Read or Write)

| | |
|---|---|
| Description | Enables or disables iSCSI offload personality on the port. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.iSCSIOffloadSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether iSCSI Offload capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.LinkStatus (Read Only)

| | |
|---|---|
| Description | Indicates the physical network link status as reported by the controller. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.MacAddr (Read Only)

| | |
|---|---|
| Description | Indicates the permanent MAC address assigned during manufacturing. |
| Legal Values | String of up to 17 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.NicMode (Read or Write)

| | |
|---|---|
| Description | Enables or disables NIC personality on the port. |
| Legal Values | • Enabled<br>• Disabled |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.NicPartitioningSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether NIC Partitioning capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.NWManagementPassThrough (Read Only)

| | |
|---|---|
| Description | Indicates whether the Network Management Pass Through capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.OnChipThermalSensor (Read Only)

| | |
|---|---|
| Description | Indicates whether an on-chip thermal sensor is available. |
| Legal Values | None |

| | |
|---|---|
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.OSBMCManagementPassThrough (Read Only)

| | |
|---|---|
| Description | Indicates whether OS-BMC Management Pass Through capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.PCIDeviceID (Read Only)

| | |
|---|---|
| Description | Indicates the PCI Device ID of the port. |
| Legal Values | String of up to 4 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.PXEBootSupport (Read Only)

| | |
|---|---|
| Description | Indicates whether PXE Boot capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.RemotePHY (Read Only)

| | |
|---|---|
| Description | Indicates whether RemotePHY capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.RXFlowControl (Read Only)

| | |
|---|---|
| Description | Indicates whether Receive (RX) Flow control capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.TOESupport (Read Only)

| | |
|---|---|
| Description | Indicates whether TCP/IP Offload Engine capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.TXBandwidthControlMaximum (Read Only)

| | |
|---|---|
| Description | Indicates whether Transmit (TX) Bandwidth Control Maximum capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.TXBandwidthControlMinimum (Read Only)

| | |
|---|---|
| Description | Indicates whether Transmit (TX) Bandwidth Control Minimum capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.TXFlowControl (Read Only)

| | |
|---|---|
| Description | Indicates whether Transmit (TX) Flow Control capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.VirtFIPMacAddr (Read or Write)

| | |
|---|---|
| Description | Programmatically assignable FIP-MAC address for FCoE. Programmatic write for support of I/O Identity feature. |
| Legal Values | String of up to 17 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.VirtIscsiMacAddr (Read or Write)

| | |
|---|---|
| Description | Programmatically assignable MAC address for iSCSI offload. Programmatic write for support of I/O Identity feature. |
| Legal Values | String of up to 17 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.VirtMacAddr (Read or Write)

| | |
|---|---|
| Description | Programmatically assignable MAC address. Programmatic write for support of I/O Identity feature. |
| Legal Values | String of up to 17 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.VirtualLinkControl (Read or Write)

| | |
|---|---|
| Description | Indicates whether Virtual Link Control capability is supported. |
| Legal Values | None |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.VirtWWN (Read or Write)

| | |
|---|---|
| Description | Programmatically assignable Fibre Channel World Wide Node Name identifier for FCoE. |
| Legal Values | String of up to 23 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.VirtWWPN (Read Only)

| | |
|---|---|
| Description | Programmatically assignable Fibre Channel World Wide Port Name identifier for FCoE. |
| Legal Values | String of up to 23 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.WWN (Read Only)

| | |
|---|---|
| Description | Fibre Channel World Wide Node Name identifier for FCoE. |
| Legal Values | String of up to 23 characters |
| Write Privilege | Server Control |
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |

## NIC.VndrConfigGroup.WWPN (Read Only)

| | |
|---|---|
| Description | Fibre Channel World Wide Port Name identifier for FCoE. |
| Legal Values | String of up to 23 characters |
| Write Privilege | Server Control |

| | |
|---|---|
| License Required | iDRAC7 Express or iDRAC7 Enterprise |
| Dependency | None |